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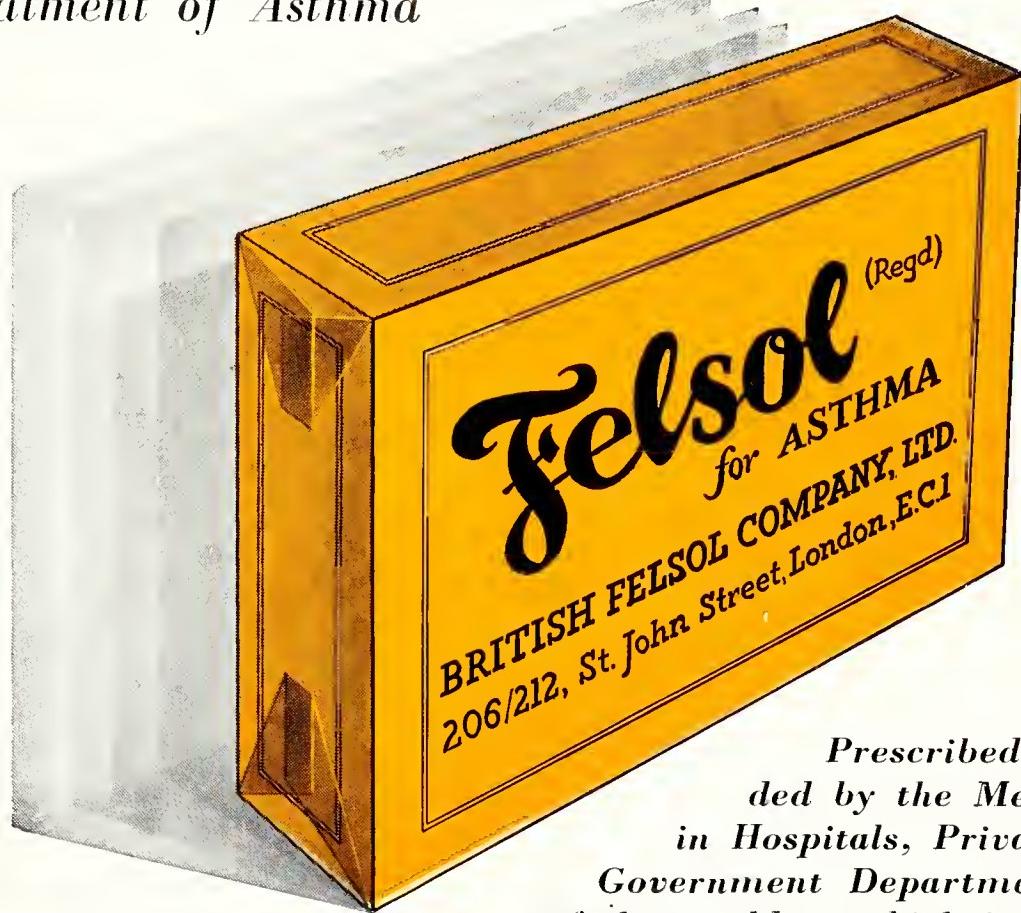
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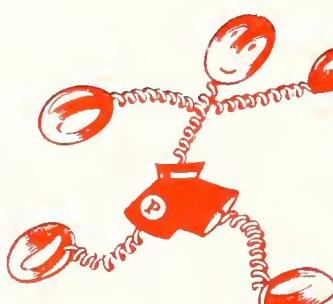
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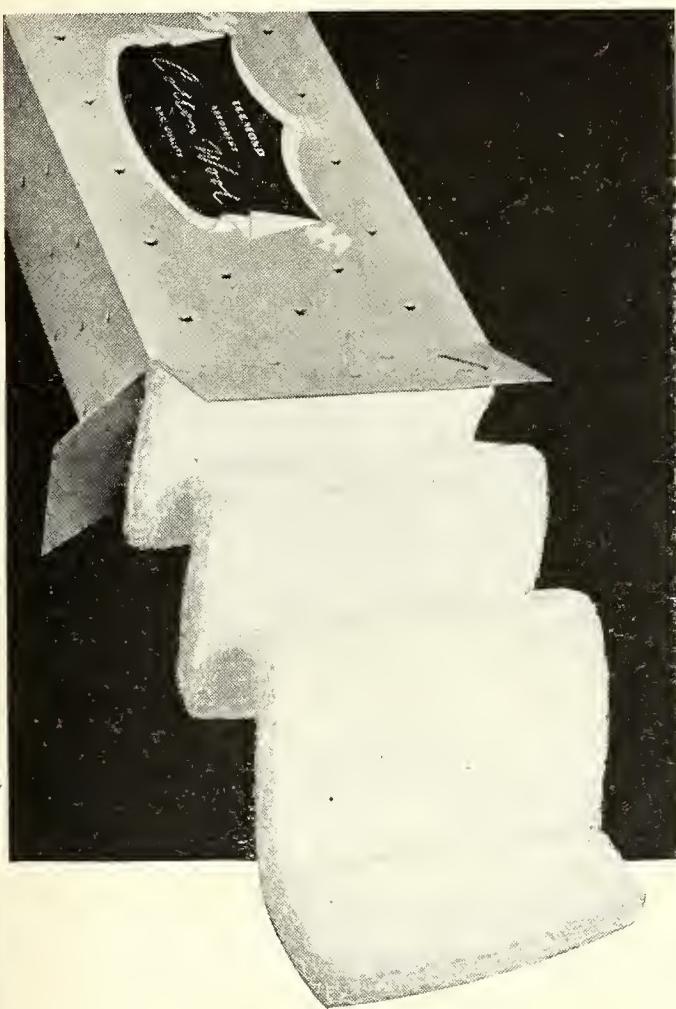
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 176

October 21, 1961

No. 4262

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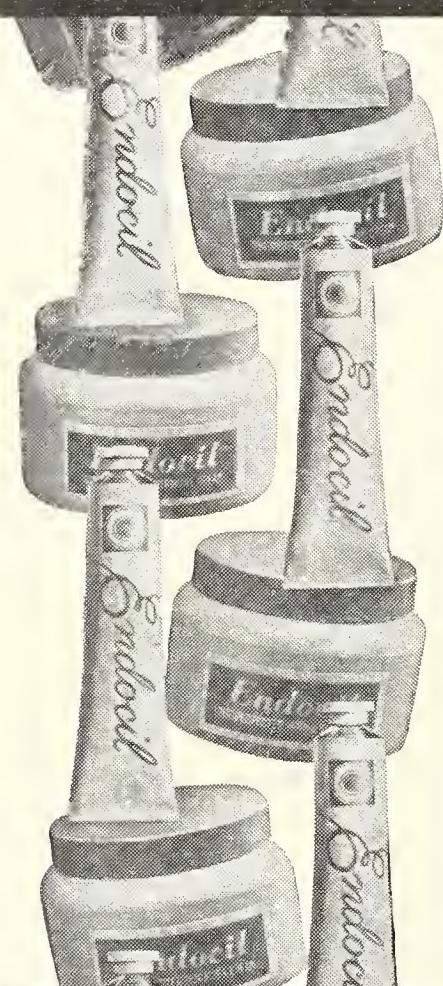
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The
CHEMIST AND DRUGGIST

Volume 176

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No. 4262

Use of N.H.S. by Foreigners

MINISTER'S PROMISE TO PARTY SUPPORTERS

A MOTION that urged the Government to restrict free National Health Service treatment for foreigners produced a heated debate at the Conservative Party conference at Brighton, October 15-21. The proposers wished to restrict such treatment to those whose countries offered reciprocal facilities.

The motion was withdrawn after Mr. Enoch Powell (Minister of Health) had opposed it while placing on record that the service, except in emergency, was not available to non-residents and "we should use all practical means to prevent the abuse" of the service.

At a rally after the conference, the Prime Minister (Mr. Harold Macmillan) outlined a ten-year plan for Britain under which the hospital authorities had been told to make their plans for ten years ahead—a "massive undertaking" that might well cost £500 millions.

company's factory at Sandwich, Kent. The local health authority hoped that the majority of the city's 302,000 inhabitants would be vaccinated within a few days. The vaccine was supplied in concentrated form, in containers packed in dry ice at -20° C. Although the outbreak was caused by the virulent strain I polio virus, the vaccine used was Sabin attenuated type II, thus taking advantage of the phenomenon of interference, successfully used elsewhere, in which the feeding of a single type of oral vaccine virus prevented the establishment of a natural poliomyelitis virus of a different type. In such a programme, persons already im-

munised with Salk vaccine were also asked to participate, because although protected themselves they were potential carriers of the infection.

Revision Courses on Tape

A NEW SERVICE FOR BRANCHES

AS an experiment, the Pharmaceutical Society is preparing a series of four tape recordings of lectures on the actions and uses of drugs, for issue to branches that are unable to arrange revision courses with "live speakers." The first lecture, completed recently, deals with tranquillisers. It has been recorded by Dr. G. R. Boyes. It is 40 minutes long and is illustrated with twenty-six slides showing structural formulas of compounds and some interesting behaviours of animals during pharmacological tests. The lectures still in course of preparation are two on antibiotics and one on corticosteroids. If the experiment meets with success, a complete post-graduate course will be prepared. The tape plays back at 3½ in. per sec., and the slides are 2 x 2 in. Space is left on the tape for questions to be put by the audience, and it is hoped eventual-

Publicising Inquiries

ADVICE TO EXECUTIVE COUNCILS

THE Minister of Health (Mr. Enoch Powell) has advised Executive Councils on procedure to be followed in publishing decisions of Disciplinary Committees in cases against doctors, dentists, pharmacists and opticians. In a statement issued on October 17 the Minister said that practice hitherto had been inconsistent. In the past, the statement says, "the result has been that the Press sometimes gets no information, sometimes gets it twice, and sometimes gets it in an inconveniently voluminous form." The Minister has, therefore, advised all councils that when a case has been completed, and not before, a full summary should invariably be issued, covering the complaint, the executive council's recommendations, the Minister's decision, and the reasons given for it.

Polio Outbreak in Hull

ORAL VACCINE CHOSEN IN EMERGENCY
 THE first large-scale administration of oral vaccine against poliomyelitis in the United Kingdom was inaugurated in Hull, Yorks, on October 17. The decision to allow this was taken by the Ministry of Health in view of the seriousness of the outbreak reported by Hull City Council. At the time of going to press, 200,000 doses had been dispatched by air and road to emergency vaccination centres in the city by the manufacturers, Pfizer, Ltd., from the



CANADIAN BUYERS AT SPEKE: Five Canadian Government buyers photographed at the headquarters of Evans Medical, Ltd., Speke, Liverpool, 24, on October 9. The delegation is in Britain to study British industry, and the visit to Messrs. Evans was to inspect a company in the pharmaceutical field. The party was conducted through several of the production departments and also saw something of the wholesaling division. The visit was arranged by the Board of Trade and sponsored by the Western Hemisphere Exports Council. Members of the delegation were Messrs. B. L. McClean (Director of Purchases, Alberta); C. V. Marrin (Provincial Government Purchasing Officer, Manitoba); L. H. Levasseur (General Director, General Purchasing Office, Quebec); M. Heath (Director of Trade Services, Department of Industry and Transport, Saskatchewan); and E. D. Lewis (Provincial Government Purchasing Officer, Nova Scotia).

ally for the speaker's reply to be recorded also and sent back to the branch. Alternatively, typewritten replies may be sent. Together with the loaned tape and slides, branch members receive handouts of the essential details of the lecture. The taped lectures are prepared in the Department of Pharmaceutical Sciences under the direction of Dr. K. R. Capper.

Advice to Pharmacists

STATEMENTS BY THE SOCIETY'S COUNCIL

THE Council of the Pharmaceutical Society has issued two more statements of guidance to members. They are in the following terms:—

ADVERTISING: A number of cases have been reported to the Council of members advertising on the backs of bus and tram tickets and in public telephone kiosks through firms of advertising agents. The Council wish it to be known that they strongly deprecate the use of transport tickets and telephone kiosks as advertising media for pharmacists and advise members not to enter into advertising contracts of this kind for the purpose of publicising their business.

Those advertising agents known by the Council to act on behalf of transport corporations and the Postmaster General have been advised of the Council's objections and have been requested not to approach members of the Society for the purpose of inducing them to enter into such advertising contracts.

FAMILY PLANNING: The attention of the Council has been drawn to the distribution by a manufacturer of contraceptives of a cardboard container for counter display containing booklets relating to family planning matters. The Council desire to remind pharmacists that the exhibition of these containers or their contents would be in conflict with paragraph 10 of the Statement Upon Matters of Professional Conduct which reads as follows:

"There should be no exhibition of contraceptives in a pharmacy or any reference direct or indirect by way of advertisement, notice, showcard or otherwise that they are sold there other than a notice approved by the Council bearing the words 'Family Planning Requisites'."

P.A.T.A. Elections

TWELVE COUNCIL SEATS OPEN

TWELVE seats on the council of the Proprietary Articles Trade Association are open for election for the year 1962. The members of the council who retire this year are as follows:—*Manufacturers' section*: Allen & Hanburys, Ltd., Elliman, Sons & Co., Ltd., Lincoln & Midland Counties Drug Co., Ltd., Parke, Davis & Co. *Wholesale section*: Butler & Crispe, Ltd., Hall, Forster & Co., Ltd., Hirst, Brooke, Goodalls, Ltd., Jas. Woolley, Sons & Co., Ltd. *Retail section*: J. C. Bloomfield, J. E. Goodall, G. E. Morgan, D. A. Rees. (Mr. Rees has retired and is not standing for re-election.) It is open to members of the manufacturers', wholesale and retail sections of the P.A.T.A. to nominate candidates for the vacancies in their respective sections. Nominations will be received by the secretary at 43 Gordon Square, London, W.C.1, up to and including November 6.

British Approved Names

DRUGS

THE following supplementary list of approved names has been issued by the British Pharmacopœia Commission:—

APPROVED NAME	OTHER NAMES
Ampicillin	6-[(-)- α -Aminophenylacetamido] penicillanic acid [(-)- α -Aminobenzyl] penicillin (Penbritin)
Benzphetamine	N-Benzyl-N α -dimethylphenethylamine (Didrex is the hydrochloride)
Butylated hydroxyanisole	A mixture of 2- <i>tert</i> , butyl-4-methoxyphenol and 3- <i>tert</i> , butyl-4-methoxyphenol 2:6-Di- <i>tert</i> , butyl-p-cresol
Butylated hydroxytoluene	1-[2-(2-Hydroxyethoxy)ethyl]-4-phenyl-4-propionylpiperidine
Droxypropine	6-Nicotinoylcodine
Nicocodine	2-Di-(N-methyl-N-phenyl- <i>tert</i> , butylcarbamoylmethyl)-aminoethanol
Oxethazaine	4-(4-Carmamoyl-4-piperidino-piperidino-2:2-diphenylbutyronitrile
Piritramide	The proteolytic enzyme derived from the activation of plasminogen (Actase is plasmin (human))
Plasmin	6-(α -Phenoxybutyramido) penicillanic acid (1-Phenoxypropyl) penicillin (Brocillin is the potassium salt; Ultropen is the potassium salt)
Propicillin	Antibiotics isolated from a strain of <i>Streptomyces mediterranei</i> (specific substances are designated by a terminal letter; thus, Rifomycin B)
Rifomycin	Methyl 18-(4-ethoxycarbonyloxy-3:5-dimethoxybenzoyl)-reserpate (Singoserp)
Syrosingopine	NN-Dimethyl-3-phenyl-3-p-tolylpropylamine
Tolpropamine	Trichlor-2-(3:4:5-trimethoxybenzoyloxy)-ethylammonium tosylate (Tosylic acid is the trivial name for p-toluenesulphonic acid)
Troxonium tosylate	N-Ethyl-N-2-(3:4:5-trimethoxybenzoyloxy)-ethylpyrrolidinium tosylate (Tosylic acid is the trivial name for p-toluenesulphonic acid)
Troxypyrronium tosylate	An alkaloid extracted from <i>Vinca Rosea</i> (Velbe is the sulphate)
Vinblastine	

PESTICIDES

THE British Standards Institution announce that the following new names have been approved by the Pest Control Products Industry Standards Committee.

COMMON NAME	CHEMICAL NAME
4-CPA	4-chlorophenoxyacetic acid
Dichlorprop	2-(2,4-dichlorophenoxy)propionic acid
Ethoxyquin	1,2-dihydro-6-ethoxy-2,2,4-trimethylquinoline
Thiodemeton	diethyl S-[2-(ethylthio)ethyl] phosphorothiolothionate
Thioquinox	2-thio-1,3-dithiolo[4,5-b] quinoxaline

Nursing Exhibition

DISPLAYS OF PHARMACEUTICALS

PHARMACEUTICAL manufacturers were again well represented at the annual London Nursing Exhibition, held in conjunction with the professional nurses' and midwives' conference at Seymour Hall, October 16-20. Exhibitors concentrated mainly on showing proprietary items that could be recom-

mended by the nursing profession to patients. Such products included surgical and drug products, for counter sale, invalid beverages, baby foods and cosmetic creams. The inaugural lecture at the conference was given by Sir Russell Brain (physician to the London Hospital), whose subject was "Pain." Subjects of other lectures included cancer research, "The Use and Abuse of Cytotoxic Drugs," and the common cold.

Lead in Food

NEW REGULATIONS EFFECTIVE APRIL 1962

REGULATIONS relating to the lead content of food, based on recommendations of the Food Standards Committee, are to come into operation in England and Wales on April 16, 1962. The Lead in Food Regulations, 1961 (H.M. Stationery Office, price five-pence) lay down statutory limits for the lead content of food and beverages imported, sold or intended for sale for human consumption. The regulations limit, with certain exceptions, the lead content of ready-to-drink non-alcoholic beverages to 0.2 parts per million and of foods to 2.0 p.p.m., and allow, for certain specified beverages and foods, different limits which in certain instances apply only for a limited period. The regulations also provide that a beverage or food, sold or intended for sale, may, if a justice of the peace so orders, be condemned and destroyed after a public analyst has certified that it contains lead in excess of the permitted tolerances.

Retail Sales

BOARD OF TRADE STATISTICS

RECENTLY issued Board of Trade figures show that sales of chemists' goods by independent retailers were 7.3 per cent. lower in August than in July but 4.1 per cent. higher than in August 1960. Multiple retailers sales were 6.3 per cent. lower in August than in July although 8.7 per cent. higher than in August 1960. Sales by Co-operative Societies were 8.8 per cent. lower in July than in August but 5.3 per cent. higher than in August 1960. The figures do not allow for receipts under the National Health Service.

OVERSEAS NEWS

NIGERIA

Pharmacists Go On Strike

PHARMACISTS employed under the Federal Medical Service of Nigeria, in and around Lagos, went on strike on October 13 over a pay claim. The strike had been threatened for some time. The strikers want immediate action on promised new pay schedules that have not been implemented.

AUSTRALIA

Serum Laboratories' Commission

THE Federal Serum Laboratories, Melbourne, are from November being administered by a commission of five men. Chairman of the commission is Mr. C. S. Butt (Australia's war-time controller of rubber). Dr. R. W. Greville becomes director of the serum laboratories.

IRISH BREVITIES**THE REPUBLIC**

MR. P. A. BRADY, who was re-elected in the Dublin South-Central constituency in the recent General Election will be the only pharmacist in the new Dail. The two other outgoing pharmacists—Mr. F. Loughman and Mr. P. Teehan—were defeated in the South Tipperary and Carlow-Kilkenny constituencies respectively.

NEWS IN BRIEF

THE Ministry of Health has issued a new "pink section" of the Comprehensive Handbook on Prescribing. It includes extracts from the Drug Tariff, April 1961.

ABOUT 3 lb. of Indian hemp, stated to be worth £500 on the illegal market, was seized by Customs and Excise officials searching the R.M.S. Escalante at Liverpool on October 9.

FIVE men who tied up a night watchman at the factory of Wilkinson Sword, Ltd., Southfield Road, London, W.4, on October 13 escaped with several thousand pounds after blowing open a safe.

REPRINTS of articles in the Report of the Medical Research Council for 1959-60 are now available in booklet form ("Current Medical Research," H.M. Stationery Office, price 4s.).

PROVISIONAL Board of Trade estimates indicate that the seasonally adjusted retail sales index was 117 in September, as in July and August (1957=100).

MR. L. W. Davies, M.P.S., the Broadway Pharmacy, Broadstone, Dorset, was awarded first prize in the local window-dressing week competition, with a display of men's toilet preparations.

SIR Arthur Porritt (a past-president of the British Medical Association) will open the London Medical Exhibition, Royal Horticultural Society's new hall, Greycoat Street, London, S.W.1, on November 13.

THE G.P.O. state that many circulars, bills, invoices, greetings cards, etc. are still being posted in unsealed envelopes at the old rate of 2d. They point out that the present rate is 2½d. and that postage at the old rate may lead to delay and to payments by the recipients of mail.

SPORT

Golf.—LIVERPOOL CHEMISTS' GOLFING SOCIETY, at Woulton golf club on September 20. Results: Captain's Prize, 1, N. J. Harris, 89 (22), 67; Summer Prize, 1, N. A. Melton, 81 (13), 68; Bayer Prize, 1, A. L. Saul, 75 (4), 71; Hough Hoseason trophy and replica, 1, P. Woodhead, 79 (7), 72.

LOCAL OFFICERS**PHARMACEUTICAL SOCIETY**

East Metropolitan Branch.—Chairman and President, Mrs. C. R. Stein; Vice-chairmen and Vice-presidents, R. W. J. Knights and O. C. Wombwell.

Pontypridd and Rhondda Valley Branch.—Chairman, H. Pritchard; Vice-chairman, H. A. George; Treasurer, B. Newell; Assistant Secretary, H. J. Scourfield; Secretary, W. E. Owen, 33 Richard Street, Cilfynydd, Pontypridd, Glam. (Telephone: Pontypridd 2262.)

TOPICAL REFLECTIONS

By Xrayser

Homework

In view of the wide field covered by the report of the Committee on the General Practice of Pharmacy and of the length and complexity of the document itself, it is not surprising that it has been thought necessary to have the material examined at branch level, for obviously one professional session at Portsmouth could do little more than give an introduction to the subject. Indeed, in reporting to the October meeting of the Pharmaceutical Society's Council, the president (Mr. H. S. Grainger) said that the matter had been aired and it was hoped that the branches would get down to some real thinking. I have little doubt that the branches will, but it may be wondered what useful purpose was served at that stage by the president's criticism (p. 424) of the discussion at Portsmouth on the grounds that it was not well informed and that it provided evidence that "homework had not been adequately done." It is clear that a great deal of study is necessary to build up a composite picture of what the report envisages, and clarification will be essential in some of the less easily understood statements, and I have little doubt that members of Council will be happy to visit the branches to help to clear up points of difficulty. To reach agreement on the whole basis of the pharmaceutical service in this country, and to decide if that service is to be regulated by a system of compulsion, or under conditions of free competition, will be fundamental. If the former, then under what authority is the service to be regulated? Is the Pharmaceutical Society to seek powers of compulsion? Is there to be a central Pharmacy Board with powers? Or is it just to be hoped that, as suggested in paragraph 47, an adequate pharmaceutical service can be handled as a professional matter within what is called "the pharmaceutical community"? Recommendation (C) states that the pharmaceutical community must accept full responsibility for providing a pharmaceutical service, and that seems to me to carry with it the need for a central organisation with powers.

Control

In paragraph 43 of the report it is stated that the pharmaceutical service is no longer a matter in which individual pharmacists can decide for themselves what sort of service they give. The report envisages (paragraph 45) a degree of central and local planning involving co-operation between pharmacies and the possible promotion of pharmacies that can meet needs which are beyond the resources of the small business. But if individual pharmacists can no longer decide for themselves, who is to decide for them, and on what basis are the decisions to be applied? Both points will need to be examined in conjunction with the section on after-hours service, where the point is examined whether the bare fact of keeping open late is misconduct. In paragraph 50 the opinion is expressed that an affirmative answer to that question would be equivalent to saying that a pharmacist should not be free to exercise his calling when he wishes to do so. "If the consequences of keeping open late is to affect other pharmacists in the district adversely, this is nothing more than a normal risk which anyone takes who practises a calling under conditions of free enterprise."

Adequate service

There is no doubt that it is in the interest of the public that an adequate pharmaceutical service should be provided, and public need must be placed first in any consideration of the problem. How far it is necessary to go to provide the service must be carefully weighed, and in attempting to assess requirements it must be borne in mind that not all pharmacies are in large cities or towns. In many small country towns, remote from large centres of population, devoted service to a small community is given by one man who is not in a position to share the burden with another pharmacist, or to share staff. The giving to such a community of a twenty-four-hours service would be physically impossible and would demand that the pharmacist be perpetually on call at his business premises or at his home. The pharmacist in the one-pharmacy area is, like Frederick, a "slave of duty," and his position demands special consideration.

Ministry's Offer Rejected

'NO POSSIBILITY OF CONFERENCE AGREEING'

AN offer of a new basis of remuneration for chemist contractors, made by the Ministry of Health on September 22, has been flatly rejected by the Central National Health Service (Chemist Contractors) Committee.

"The offer," says the Committee in a statement to the Press, "is one that the Committee is not prepared to place before the Representatives' Conference, because there is no possibility whatsoever of the Conference agreeing to it."

The Ministry's proposal had been (a) that the oncst allowance should be on a sliding scale averaging about 18 per cent. (details below); (b) that the average dispensing fee should be increased by about 2½d. per prescription and (c) that there should be an upward revision of some other (minor) fees.

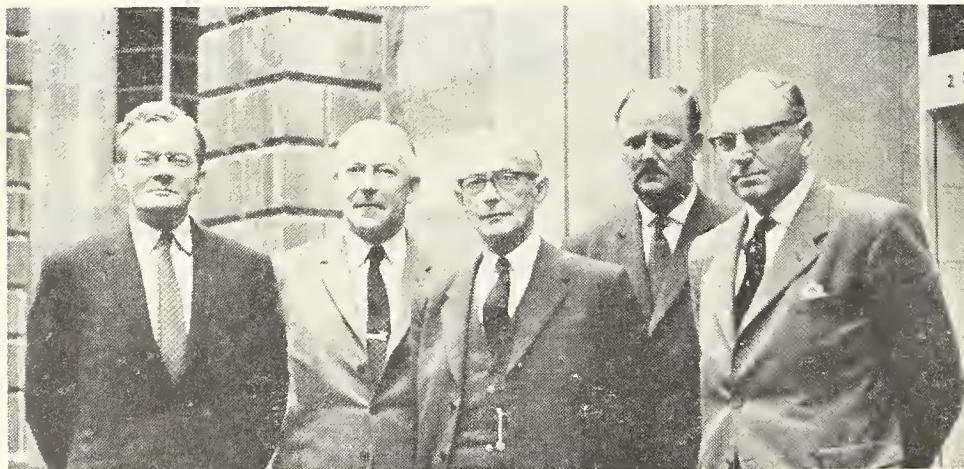
At the same time the Ministry called for discussions on how to devise methods of producing information at regular intervals "as a valid current basis for keeping remuneration under review." Discussing that request on October 12, Mr. J. Wright (secretary of the Central N.H.S. Committee) said "Apparently we have not made it clear to the Ministry that the basis of our

claim is that we absolutely refuse to go on being victims of inquiry after inquiry into the pharmaceutical costs, and that, unless the Ministry agrees to our demand of a professional fee for every prescription dispensed, we have not the slightest intention of discussing with the Ministry any other aspect of the matter." Mr. George Graham (chairman of the Committee) said "It may be that we have come to the parting of the ways. Pharmacists have served the National Health Service with skill and devotion for the past twelve years. We have given of our knowledge and professional skill far beyond anything which was demanded of us by the letter of the contract. In return, officialdom has sought to confuse the issue, and Ministers have been anxious to prove that they can always save money—provided the saving is made at the expense of the pharmacist."

Claim and offer

	PRESENT PAYMENT	WHAT CONTRACTORS CLAIM	WHAT THE MINISTRY OFFERS
Professional fee ...	Nil	2s.	Nil
Dispensing fee ... (average)	14·58d.	Nil	17·08d.
Oncost allowance ...	25 per cent.	25 per cent.	Sliding scale averaging 18 per cent.*
Urgent fees:			
Before 11 p.m. ...	1s.	3s. 6d.	
After 11 p.m. ...	1s.	10s. 6d.	
Rota duties ...	7s. for 1 hour on weekdays; 12s. 6d. for 1 hour on Sundays and public holidays.	15s. for 1 hour on weekdays other than early closing days; 30s. for 1 hour on the evening of early closing day, on Sunday or on public holiday.	10s. an hour on weekdays; 20s. on early closing day and 20s. an hour on Sunday or public holiday.
Container allowance	1·62d.	2·5d.	1·62d.

*25 per cent. on first 500 prescriptions dispensed per month; 20 per cent. on next 250; 12½ per cent. on remainder.



CHEMIST CONTRACTORS' SPOKESMEN: At the Ministry's headquarters at Savile Row, London, W.I., on September 12. Left to right, Messrs. Joseph Wright (secretary, Central National Health Service (Chemist Contractors) Committee); Albert Howells (chairman, National Pharmaceutical Union); George Graham (chairman, Central N.H.S. Committee); Donald Sparshott (representing company chemists); and Griff David (representing the pharmacists of Wales).

P.A.T.A.

Quarterly meeting of Council

THE quarterly meeting of the Council of the Proprietary Articles Trade Association was held in London on October 12, the president (Mr. C. H. Foster, M.P.S.) in the chair.

MR. FOSTER said it was his sad duty to announce that just before the Council assembled the secretary had received a cable from Chicago stating that Dr. Dargavel (executive secretary, National Association of Retail Druggists and chairman, Bureau of Education on Fair Trade) had died on October 9. Dr. Dargavel was a good friend of the P.A.T.A. and of many members of the Council, and an unremitting fighter in the cause of price maintenance. His visit to England as the Council's guest in 1955 and the great help he had given on that occasion was well remembered. MR. H. G. MOSS said that he spoke with a heavy heart and referred to the great respect and affection in which Dr. Dargavel was held by his many English friends. MR. H. E. CHAPMAN referred to his personal friendship with Dr. Dargavel and said that it was known to all that he had done much to further the cause of price maintenance in his own country. On the motion of THE PRESIDENT, the Council agreed to send a letter to Mrs. Dargavel expressing deep sympathy with her and her daughter in their loss and to the executive of the N.A.R.D. A vote of condolence was passed in silence, all standing.

THE SECRETARY reported that, during the quarter, the Association had continued its routine price-maintenance activities on behalf of its manufacturer members in respect of their price-maintained articles. About 300 calls had been made by the Association's representatives, and test purchases made. Letters had been sent to thirty-nine retail traders on behalf of and at the request of twelve manufacturer members whose products had been subjected to price-cutting, and in a number of instances promises of price adjustment had been given by the traders so approached.

THE SECRETARY reported that three leaflets issued by the P.A.T.A. as part of its campaign to educate parliamentarians and the public on the importance of retaining resale price maintenance had produced a satisfactory impact. The pamphlets had been widely quoted in both the trade papers and the national Press. The campaign was still being pursued and it was proposed to distribute a fourth factual document when Parliament had re-assembled.

Negotiations are proceeding for the acquisition of office premises for the headquarters of the Association, whose lease of the Gordon Square premises will terminate in June 1962.

The Council authorised the necessary steps to be taken for a council election. The Council learned with regret that Mr. D. A. REES would not be standing for re-election, as he had retired from business. Tributes to Mr. REES were paid by his colleagues and the Council placed on record their appreciation of his services.

POLIO VACCINE BY MOUTH

A research and production achievement

RECENT approval by the Ministry of Health of oral poliomyelitis vaccine and by the United States Public Health Service of Types I and II vaccine produced by Pfizer, Ltd., at Sandwich, Kent, sets the seal on an intensively pursued achievement in virology research and vaccine production.

The task of producing an orally effective vaccine has proved no less complex than the large-scale cultivation of viruses in tissue culture for the manufacture of Salk vaccine, which was hailed in 1955 as one of the most complex and exacting achievements of vaccine production. Indeed, the later project proved even more exacting in the extensive and exhaustive testing peculiar to the manufacture of a live, attenuated-virus product.

Eleven years ago, Dr. J. Enders, U.S.A., provided the impetus for polio vaccine production when he demonstrated that polio virus could be grown freely in tissue culture of monkey cells. Until then viruses had been grown in such other hosts as mice, but vaccine so prepared was too dangerous for use in humans. Enders' finding was most significant, for it suggested a safe and convenient laboratory host in which the submicroscopic polio virus could readily multiply and also give clear evidence of its presence. Several years later polio virus strains were used for mass production of the effective injectable Salk polio vaccine, which consists of particles of the polio virus inactivated by formaldehyde.

Some research workers, believing that the ultimate defeat of polio would be found in a vaccine of living attenuated viruses, continued their exploratory efforts despite the general success of Salk vaccine. Their efforts have now been rewarded.

Production Procedures

Many of the procedures used for producing oral polio vaccine are similar to those used in the manufacture of the Salk vaccine. The striking difference is in the extensive testing required at various stages of production.

Laboratory and animal tests are time-consuming and complex. Checking for active organisms through tissue culture systems is particularly laborious because it is also necessary to show that the tissue culture preparations used for testing the vaccine do not contain viral agents themselves. This is also true of most of the animal tests and is further complicated by the fact that most animals are subject to other non-related diseases of their own. Throughout production, strict measures are taken to ensure maintenance of aseptic conditions. Bacterial culture plates are placed inside the sterile areas, and tests are made every day to detect possible contamination.

Monkey kidney cells in tissue culture provide the artificial host for virus growth. Vaccines of the three virus types are prepared separately. The manufacturing process and testing for

each of the types is identical. The entire production processes and testing are conducted in a series of sterile rooms lined with ultraviolet lights.

Working with scissors under glass hoods, technicians begin the process by cutting and mincing freshly-removed



Aseptic inoculation of a tissue culture of monkey kidney cells with attenuated virus at the Pfizer laboratories.

monkey kidneys. The minced kidneys are placed in a flask and agitated mechanically in a solution of trypsin, an enzyme that causes the fragments to break down into separate cells. After about 20 minutes, the fluid is drawn off into bottles stacked in an ice bath and the flask is replenished with fresh trypsin. The process is repeated until the kidneys are completely broken down.

A standard concentration of the monkey kidney cells is inoculated into large flat flasks of nutrient medium. The flasks are incubated on racks in a temperature-controlled room, usually for eight days during which the cells multiply and form a thin layer of tissue. When the tissue culture has grown properly and is free from contamination, the spent medium is removed, the cell sheet is washed and fresh medium is added.

The spent medium fluids from each tissue culture flask are pooled and added to a series of four tissue cultures in a test for living microbial agents. The tissue culture flasks are passed to the live virus area.

Here one of the three types of polio virus, which has been stored in deep freeze, is added to the tissue culture. Only three-quarters of the tissue cultures receive the virus seed, while the remaining quarter is held as a control. During an incubation period of several days the virus invades the cells, multiplies and is released into the medium. Meanwhile, a pooled sample of the control is tested in the four tissue culture systems previously used to determine if any active agents are present.

The virus-laden fluid is harvested and stored in deep-freeze for ten days, at which time a second test of the control is conducted through the same tissue culture series.

If no active agents have been detected in either of these examinations of the control or in the medium change fluids, random samples of the vaccine undergo tissue culture testing and then sterility and potency checks. If these results are satisfactory, batches of virus fluids are then pooled together and further studied for effects in mice, guinea pigs and rabbits.

Single strain pools of vaccine meeting all of the exacting qualifications are then passed through sterile filters whose small porosity removes any residual fragments of cell debris and assures bacteriologically sterile filtrates. The procedure, incidentally, is similar to the filtration process used in Salk vaccine manufacture.

Following filtration, still more tests are made. Samples are injected into monkeys, which are compared with a group of monkeys inoculated similarly with the reference strain of attenuated polio virus provided by the licensing authorities. The vaccine under test is satisfactory for use providing that its neurovirulence does not exceed that of the reference polio vaccine. In England, such testing is done by the manufacturer and by the Medical Research Council for the Ministry of Health.

During manufacture of a small batch of vaccine, approximately 110 tests are conducted on samples for sterility, virus assay, potency and safety *in vitro* and *in vivo*. At least two separate types of tests are performed to show that the virus in each single strain pool is the attenuated strain.

Problems of Storage

After the vaccine has been packaged in its final form it is again tested. Oral polio vaccine is highly stable, when maintained frozen. Upon thawing, the vaccine can be maintained under normal refrigeration for one week without loss of potency. This costly requirement of keeping the vaccine at sub-zero temperatures raises many problems not encountered with the Salk vaccine in testing, shipping, distribution, packaging and warehousing.

The most important difference between Sabin (oral) and Salk (injected) vaccine is that, whereas the latter creates a high protection in the blood stream but enables the virus to live in the intestine, the former one builds up resistance in the intestine and thus prevents the virus being transmitted to others. It furthermore builds up this resistance more quickly—in less than a week, in fact.

Thus, the rôle being played by health departments and general practitioners, as epitomised currently in Hull, is an important and final link in a medical conquest begun in the laboratories of men like Enders, Salk and Sabin and carried forward by industrial scientists in the production line.

TRADE NOTES

A Change of Pack.—Jeyes (Sales), Ltd., River Road, Barking, Essex, announce that the 5-gall. sizes of Ibcoll extra and Jeypine are now issued in robbicans instead of drums.

Prices Reduced.—The following price reductions for Adcortyl tablets, announced by the manufacturers, E. R. Squibb & Sons, Ltd., Edwards Lane, Speke, Liverpool, 24, were received too late for inclusion among the cumulative price list, took effect on October 16:—1-mg., 100, 40s. 6d., 500, 188s. 4½d.; 4-mg., thirty, 50s. 9d., 100, 162s., 500, 76s. 6d.

Changed Prices and Why.—Optrex (Ireland), Ltd., Bellevue House, Islandbridge, Dublin, 8, point out that the prices of Optrex and Famel syrup in the Republic of Ireland have been changed in an upward direction [corrected note]. The increases have been forced upon the company by constantly rising costs. Messrs. Optrex point out that they are one of the few firms

whose prices are still only about 25 per cent. above pre-war.

A Sampling Campaign.—By arrangements with the agents for about 300 newly converted flats and houses in London and the home counties, Newton, Chambers & Co., Ltd., Thorncleif, Sheffield, are placing a roll of their recently introduced Izal soft-tissue toilet paper in the bathroom cabinets of each of the premises as they are let. Messrs. Newton, Chambers point out that 40 per cent. of all the toilet paper now sold is of the soft type and claim that Izal is the only one that is lanolised.

Hospital Holloware in Polypropylene.—Henleys Medical Supplies, Ltd., Clarendon Road, London, N.8, are producing in Propathene (the I.C.I. brand of polypropylene) a number of vessels for hospital use, including medicine measures, lotion bowls, gallipots, kidney dishes, cereal bowls, tumblers, etc. Polypropylene has the advantages that it does not scratch or stain in normal

FROM WEST LONDON TO THE COUNTRY

A chemical manufacturer adjusts for expansion

ESTABLISHED in 1947, Halewood Chemicals, Ltd., have for some time found their premises at Eastbourne Mews, Paddington, too small to cope with their expanding business. In the course of the next few days the offices and works are transferring to newly built premises adjoining the Mill at Stanwell Moor, Staines, Middlesex. The Mill was taken over from the makers of Dr. Hair's asthma cure about two years ago, when Messrs. Halewood acquired all the assets of that company, and has since been used by them for storing raw materials, packing materials, etc., to relieve space in the London premises. When it became obvious that such relief could only be temporary, it was decided by the company that, as a move was necessary, the advantages of operating outside the centre of London outweighed the advantages of a central position. However, as three-quarters of the company's business is accounted for by exports,

which go to about sixty countries, it was essential not to be too far from London or overseas buyers might be prevented from visiting the company when in Britain. The company's decision to move to Stanwell seems to have been wisely made for, besides the advantages of working in country surroundings, the new headquarters are only eighteen miles from Hyde Park Corner and about two miles from London Airport. Records show that a mill has been on the site (alongside the River Colne) for many centuries. It ceased to function as a mill at the beginning of the 1914-18 war, when a company (the Stanwell Chemical Co.) took it over for the manufacture of chemicals for war purposes. The makers of Dr. Hair's asthma cure acquired the premises in 1922.

Messrs. Halewood currently supply a wide range of tablets, capsules, ointments and injections and are agents for Cilag, A.G., Switzerland.

use and that articles made from it are virtually indestructible. The range of products is being extended shortly to include bedpans, male urinals, carafes, etc.

Perfume Hints.—The Fragrance Bureau, 30 York House, Upper Montagu Street, London, W.1, point out that perfumes containing musk last longer in the humidity of dull, drizzly weather; that a fine spray of perfume, Cologne, or hair laquer can spoil artificial pearls, though real or cultured pearls are impervious to solvents, and that, unlike wine, a fragrance does not improve in bouquet with age. Once a bottle is open the perfume should be used.

Mother-and-child Centre.—In association with what is claimed the first mother-and-child centre in Britain (at Kingston-on-Thames, Surrey), Lewis & Burrows, Ltd., 197 Lyham Road, London, S.W.2, chemists, have installed a comprehensive chemist division with dispensing services, drugs, medicinal products, cosmetics, perfumery and toiletries, including a market designed for help-yourself-shopping. In the mother-and-child centre the mother-to-be can walk into a single shop and buy everything she will need for herself during pregnancy, for the baby's birth and for the child up to the age of two years. The centre stocks clothes for mother and baby, prams, high-chairs, sewing machines, nursery furniture and baby equipment, and such things as bottle-warmers, layette baskets, travelling bags and a baby alarm microphone that can be fitted in cot or pram to carry the child's cry to parents in another room, plus toiletries for mother and baby, a complete range of medical requisites, and all types of baby foods, rusks and special preparations. A trained midwife is in constant attendance.

Bonus Offers

POTTER & CLARKE, LTD., River Road, Barking, Essex. Potters catarrh and pharmaceutical pastilles. Bonus terms end October 31.

RADIOL CHEMICALS, LTD., 78 Upper Richmond Road, London, S.W.15. Radian and Radiol products. Bonus terms end October 31.

FASSETT & JOHNSON, LTD., 86 Clerkenwell Road, London, E.C.1. Quinasp cold and influenza capsules. Twelve invoiced as eleven. Until November 30.

CHARNWOOD LABORATORIES, Loughborough, Leics. Chewable Super Plenamins. Twenty-six invoiced as twenty-four; Thirteen invoiced as twelve (introductory offer).

Information for Manufacturers

National Merchandising Service.—Sales Force, Ltd., are launching a national merchandising service with over 200 merchandising representatives equipped with vans. The range of services offered includes erecting counter and floor displays and putting up stickers and organising promotion schemes and "tie-in deals" of manufacturers' special offers. The Service is tailored primarily for the manufacturer who is not in a position to ensure periodic calls on the bulk of his retail outlets.



The Mill, Stanwell Moor, Middlesex, with adjoining new premises built for Halewood Chemicals, Ltd.

NEW PRODUCTS AND PACKS

Crunch Bar.—A. Wander, Ltd., 42 Upper Grosvenor Street, London, W.1, announce the introduction of Ovaltine crunch bar, "a delicious combination of crisp Ovaltine enrobed with milk chocolate."

"Chewable" Vitamins.—Charnwood Laboratories (a division of Vantorex, Ltd.), Loughborough, Leics, have launched a new speciality, "chewable Super Plenamins," claimed specially suitable for the many adults and children who find themselves unable to swallow sugar-coated tablets or capsules. The product is orange-flavoured. There are two sizes, a 15-day and a 30-day sizes.

An Improved Insufflator.—Benger Laboratories, Ltd., Holmes Chapel, Ches, announce the availability of a new modified Lomuliser—a simplified applicator designed to disperse Lomudase (for facilitating removal of visceral mucoid sputum) and Lomupren bronchodilator throughout the respiratory tract. The company's representatives will be visiting wholesalers on October 23-24 to exchange existing stocks of the present Lomuliser for the simplified version. Retail chemists currently holding stocks of Lomulisers are requested to return them to the company immediately for credit through local wholesalers.

Anti-dandruff Treatment.—Shadler, Ltd., 136 London Road, Brighton, Sussex, are launching as a product for retail sale, an anti-dandruff treatment and hair conditioner, Dannex, that is understood to have met with great success amongst hairdressers. A new plastic easy-to-hold 8-oz. sprinkler bottle has been adopted and it is issued in an eye-catching display box. Dannex is not a shampoo. It contains no oil or spirit, and is presented as being equally suitable for both men and women. The product is used by applying $\frac{3}{4}$ to 1 oz. after shampooing, massaging it into a foam, which is left on by a woman for setting the hair. A man uses Dannex as a dressing, applying a few drops daily and combing the hair into place.

Modernised.—Listerine tooth-paste is now being issued in the newly designed tube and carton illustrated. The formula

New Compacts and Accessories.—

Latest additions to the Stratton range of compacts, etc., available from Laughton & Sons, Ltd., Warstock Road, Birmingham, 14, have an oriental design executed in jet black on a china-white background. The items shown in the illustration are convertible compact (for solid or loose powder) No. 365/390, pill box No. 35/390, and folding comb 55/390.

Bath Crystals in Polythene Vase.—

Parfumerie Delafine, Ltd., 58 Woodstock Grove, London, W.12, are marketing the vase of bath salts illustrated. The crystals are available in rose (pink jar), verbena (yellow), or lavender (blue) perfumes, and vase is of blow-moulded polythene (claimed with the first snap tight stopper to have been produced in Britain). Sleeping Beauty.

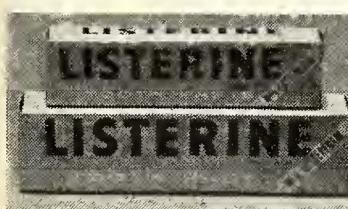
Competitively Priced.—Rogerson Page, Ltd., Woking, Surrey, have entered the electric blanket market with what they claim to be the most competitive priced double blanket on the market, the

Bath Brush and Sponge.—Laughton & Sons, Ltd., Warstock Road, Birmingham, 14, have added to their Twinco plastic range the Twinco bath brush and Sponge No. 401. It is available in pink, blue or lemon with natural-coloured tufts and handle. The handle is of flexible Alkathene.



5-ampere standard British pins revealed directly into mains plug holes. The battery is guaranteed by the makers for one year. Being completely self-contained it requires no connections, wires, trickle-chargers or other equipment. The cell is encased in robust plastic material and may be left for months in a torch-case. There is no corrosion, because the storage section is hermetically sealed and contains no chemicals to corrode the metal contact base. The Etromat rechargeable battery is also available for export, the plug end being modified for local requirements. Since the battery is constructed for recharging from 110-volt to 250-volt supplies, it may be used anywhere. The life of one recharge is the same as that of the replaceable battery (usually three or four evenings of use). The charging time, at 250 volts is 14 hours, and at 110 volts 20 hours. Thus the user simply plugs it into the mains on going to bed and takes it out for use the following evening. A light-duty type is for operating with ordinary, standard torch bulbs of 0.15-ampere consumption, and a heavy-duty type is available for high-amperage bulbs such as those required for industrial inspection, night watchmen, and so forth.

In Redesigned Bottle.—Paines & Byrne, Ltd., Perivale, Greenford, Middlesex, announce that their Hipsy rose-hip syrup is now available in a new and attractively designed bottle that still contains 8 fl. oz. Display material is available on request.



has also been revised to bring it into line with current consumer requirements (the formula has an increased foaming action) Listerine tooth-paste is obtainable now from Lambert Chemical Co., Ltd., Eastleigh, Hants.

A New Lipstick Shade.—"Vivacious," a new lipstick shade in the range produced by Dorothy Gray, Ltd., 565 Kingston Road, London, S.W.20, has been matched to the "clove carnation" shade which is *Vogue's* colour choice for the autumn.

Listerine tooth-paste in its new guise. Both tube and carton have been modernised; and the formula of the product has been improved.

Plug-in Rechargeable Battery.—After three years of trials by several thousand users, the Etromat British-made rechargeable torch battery is now being manufactured and marketed by Electronics and Automation (London), Ltd., Maxwell House, Arundel Street, London, W.C.2. The battery, the size of two U-2 standard cells, is charged by removing a cap, which simultaneously switches in the internal rectifier and also completely isolates the battery electrically, and then plugging the two



Left: The new container for Hipsy rose-hip syrup. Right: The Etromat rechargeable battery.

LEGAL REPORTS

Placed on Probation

ACCUSED at Warrington borough court recently of forging N.H.S. prescriptions and remanded (see *C. & D.*, October 14, p. 418) Mrs. Vida Ellis was placed on probation for a year. She expressed her regret and promised not to endeavour to obtain drugs illegally again.

N.H.S. Fraud by a Dentist

AT St. Austell, Cornwall, magistrates' court, on October 2, Rowland Geoffrey Wheeler, Powderham Castle, Lanlivery, who has practised in St. Austell since 1949, pleaded guilty to six charges of obtaining a total of £34 15s. 6d. from the National Health Service by false pretences. For what the magistrates called a "cool, calculated course of fraud over a considerable period" he was fined a total of £240 and ordered to pay £115 towards the costs of the prosecution. For the prosecution, it was said that the amounts obtained fraudulently were small compared with Wheeler's monthly cheques, but they indicated a system of deceit. Among the false claims were some for administering general anaesthetics. When questioned about that by the police, Wheeler said he had invented a new technique which involved the use of hypnotism. He claimed it took longer and involved more skill than giving ordinary gas and that he should be paid for it. The Dental Estimates Board did not agree that Wheeler's technique came within the regulations. For the defence it was said that Wheeler qualified in 1926. Ill-health forced him to retire during the 1939-45 war, but the shortage of dentists caused him to return to the profession. He built up a high reputation for professional skill, but the time he spent on each patient and the broken appointments by his patients led him to the conclusion that the remuneration from the Service was inadequate. The chairman of the magistrates said they had considered a prison sentence but had remembered Wheeler's exemplary character and that the punishment they inflicted was not likely to be the final punishment.

COMPANY NEWS

Last year's figures are in parentheses

DISTILLERS CO., LTD.—Sir Laurence Merriam has been appointed a director.

TIMOTHY WHITES & TAYLORS, LTD.—An interim dividend of 6 per cent. is declared on the Ordinary share capital for the year ending January 13, 1962.

HARRIS CALORIFIC (AUST.), PTY., LTD.—The company has become a wholly owned subsidiary of Commonwealth Industrial Gases, Ltd., a partly owned subsidiary of British Oxygen Co., Ltd.

GEO. SALTER & CO., LTD.—Mr. G. P. Bache has been appointed to the board. He recently returned to Britain from Australia, where he was, for nine years, managing director of the Salter spring balance and spring factories.

CUSSONS, SONS & CO., LTD.—Mr. J. A. Betley has been appointed

managing director. Mr. Betley, who has been acting managing director since April, joined the company in 1928, and was appointed to the board in 1958.

DU PONT CO. (UNITED KINGDOM), LTD.—Mr. Samuel W. McCune III (deputy managing director) has been promoted to managing director. He succeeds Mr. W. H. McCoy, who returns to the United States on special assignment with the parent company in Wilmington, Delaware.

MELLINS, LTD.—Dividend on the 10 per cent. Cumulative Preference shares for the half-year to June 30, is to be paid on November 30. It is the further intention of the board that, subject to unforeseen circumstances, the Preference dividend for the half-year ending December 31, shall be paid on the due date.

SANGERS, LTD.—Group net profit after tax for year ended February 28, is £162,779 (£131,862), and dividend 8½ per cent. (11½ per cent.), as stated on October 7 (p. 391). Investments, £82,946 (£57,517), current assets, £5,280,943 (£4,863,685), including cash, £58,997 (£244,006), and liabilities, £3,956,057 (£3,348,614), including bank overdrafts, £202,088 (nil).

ALLEN & HANBURY'S, LTD.—Group net profit for year to June 30, was £435,051 (£374,103) and dividend 65 per cent. (45 per cent.). Properties, plant, etc., £1,223,625 (£1,202,875); current assets, £3,519,189 (£3,244,194); inter-group balances, £1,663,979 (£1,584,739); current liabilities, £1,666,972 (£1,390,717); and commitments, £75,000. Sales for first quarter of current year are reported in excess of comparative totals.

SOUTH AFRICAN DRUGGISTS, LTD.—In a circular to Preference holders the provisional judicial managers state they are not yet able to comment on the trading results for the past eleven months to September 30. An extract from the petition submitted to the Supreme Court, applying for the provisional judicial management order is quoted, which states:

"Over a reasonable period of time respondent should again be on a profit-earning basis and be able to carry on its business and to meet its obligations on the due dates of the same with normal financial facilities made available to it by its bankers and without the necessity of a judicial management order."

The provisional judicial managers have now made the financial arrangements with the bankers, it is stated in the circular.

New Companies

CHEMICAL & GENERAL EXPORTS, LTD. (P.C.)—Capital £1,000. R.O.: 6 Surrey Street, London, W.C.2.

DRUGS & CHEMICALS, LTD. (P.C.)—Capital £1,000. Subscribers: Stanley H. Lucas and Francis A. Dean. R.O.: 6 Surrey Street, London, W.C.2.

DEER DISTRIBUTORS, LTD. (P.C.)—Capital £100. To carry on the business of chemists' sundriesmen, etc. Directors: Sylvia Arney, 4 Cobden Road, Farnborough, and Max Stone.

BLUE-NILE (COSMETICS), LTD. (P.C.)—Capital £100. To carry on the business of manufacturers of and dealers in cosmetics, etc. R.O.: 55 George Street, London, W.1.

P. J. CLEGG, LTD. (P.C.)—Capital £500. To carry on the business of chemists, etc. Direc-

tors: Philip J. Clegg, M.P.S., and Nancy J. Clegg. R.O.: 6 Park Grove, Cardiff.

E. MORA, LTD. (P.C.)—Capital £100. To carry on the business of chemists, etc. Directors: Martin F. Mora and Eva A. E. Mora. R.O.: 26 North Street, Brighton.

EUROSPITAL, LTD. (P.C.)—Capital £100. To carry on the business of wholesale and retail chemists and druggists, etc. Solicitors: Dubovic Freeman & Co., 49 Queen Victoria Street, London, E.C.4.

D.D.S.A. PHARMACEUTICALS, LTD. (P.C.)—Capital £1,000. To carry on the business of manufacturers, wholesalers and retailers of drugs, pharmaceutical preparations, etc. Solicitors: Tringham, 23 Portman Square, London, W.1.

SOUTHERN PHARMACIES, LTD. (P.C.)—Capital £6,000. To carry on the business of manufacturing and dispensing chemists, etc. R.O.: 4 The Parade, Waterloo Estate, Poole, Dorset.

LAUREL CHEMICALS & PRODUCTS, LTD. (P.C.)—Capital £100. To carry on the business of manufacturers of all kinds of chemicals, etc. Directors: Laurence E. Newton and David G. Pryke. R.O.: 2 Waldeck Road, Luton, Beds.

LAKESIDE CHEMISTS, LTD. (P.C.)—Capital £5,000. To carry on the business of manufacturing chemists, etc. Directors: Colin H. Clode and Doris H. Clode. R.O.: 9 Wearwater Way, Lakeside Estate, Roath Park, Cardiff.

PETER WARING, LTD. (P.C.)—Capital £1,000. To carry on the business of manufacturers of and dealers in cosmetics, etc. Directors: Sidney R. Gage and Robert O. Readman. R.O.: 64 Bedford Row, London, W.C.1.

VAPON, LTD. (P.C.)—Capital £100. To carry on the business of manufacturers of and dealers in pharmaceutical goods, etc. Directors: Eric Tieche and Sylvia Tieche. R.O.: 36 MacKenzie Street, Slough.

A. J. M. MANSELL, LTD. (P.C.)—Capital £100. To carry on the business of chemists and druggists, etc. Directors: Arthur J. M. Mansell, M.P.S., and June I. Mansell. R.O.: 65 Cannon Street, London, E.C.4.

ARNOLD SCRINE, LTD. (P.C.)—Capital £8,000. To carry on the business of chemists and druggists, etc. Directors: Madge E. Scrine and Daphne Scrine, 10 Trowbridge Road, Bradford-on-Avon, Wilts.

PROGRESSIVE PHARMACY, LTD. (P.C.)—Capital £100. To carry on the business of chemists and druggists, etc. Subscribers: Stanley H. Lucas and Francis A. Dean. R.O.: 6 Surrey Street, London, W.C.2.

PERSONAL PHARMACY, LTD. (P.C.)—Capital £100. To carry on the business of wholesale and retail chemists and druggists, etc. The directors are to be appointed. R.O.: 6 Surrey Street, London, W.C.2.

JOSEPH GILLETT (CHEMISTS), LTD. (P.C.)—Capital £100. To carry on the business of wholesale and retail chemists, etc. Directors: Margaret A. Gillett and Harold Parkinson, M.P.S. R.O.: 114 Bank Top, Blackburn, Lancs.

E. SILVERBERG & CO., LTD. (P.C.)—Capital £100. To carry on the business of chemists, opticians, etc. Directors: Eric A. Silverberg, M.P.S., and Fanny Silverberg. R.O.: 231 Breck Road, Everton, Liverpool, 5.

WRIGHT HYDE, LTD. (P.C.)—Capital £1,000. To acquire the business of pharmaceutical chemists carried on by Wright Hyde at Manchester. Directors: Wright Hyde, M.P.S., and Brian S. Waxman, M.P.S. R.O.: 655 Ashton New Road, Clayton, Manchester, 11.

G. S. CHEMICALS, LTD. (P.C.)—Capital £500. To carry on the business of manufacturers of and dealers in industrial and other chemicals, etc. Directors: Francis J. G. Graham and Gerda E. O. Graham. R.O.: 1 Bishops Court, Sundridge, Sevenoaks.

MEESON LABORATORIES, LTD. (P.C.)—Capital £22,000. To carry on the business of wholesale manufacturers of pharmaceutical goods, etc. Directors: Frank Meeson, Margaret I. Meeson, Norman A. Barnes and Lindsay Sheridan. R.O.: 151 Sunbridge Road, Bradford.

BUSINESS CHANGES

THE telephone number of Merck Sharp & Dohme, Ltd., has been changed to Hoddesdon 4511.

GOLDEN, LTD. (L'Oréal of Paris), have removed to Berkeley Square House, Berkeley Square, London, W.1 (telephone: Mayfair 8240).

S. C. BENTLEY (CHEMISTS), LTD., acquired the business of Goggs & Osborne, Ltd., 115 High Street, Huntington on September 21. They are retaining the title of Goggs & Osborne for the purpose of trading to the public.

Appointments

F. W. BERK & CO., LTD., 8 Baker Street, London, W.1, have appointed Mr. G. F. Edwards their general manager (production). Mr. D. S. Gardner succeeds the late Mr. E. L. Pipe as foundry sales representative in the Midlands, South Wales and the West.

FBA PHARMACEUTICALS, LTD., 37 Bedford Row, London, W.C.1, have made the following appointments to their representative staff: Mr. R. E. Chapelle (Birmingham, Warwickshire, Worcestershire); Mr. D. B. Cohen (West London and West Middlesex); Mr. D. Hellawell (West Yorkshire); Mr. J. W. McEvoy (Northumberland and Durham); Mr. J. B. Millar (North Lancashire); and Mr. P. D. Wells (Derbyshire, Leicestershire, Nottinghamshire).

DEATHS

BEATTIE.—On August 20, Mr. James Beattie, M.P.S., Rabey Villa, Sanquhar, Dumfriesshire. Mr. Beattie qualified in 1906.

BOARDALL.—In June, Mr. Herbert Boardall, M.P.S., 7 Mayfield Drive, King Cross Road, Halifax, Yorks. Mr. Boardall qualified in 1923.

CLOUGH.—On October 1, Mr. Arthur Henry Clough, M.P.S., '22 Sharples Avenue, Astley Bridge, aged seventy-one.

CROOKSHANK.—On October 18, Viscount Crookshank, P.C., C.H., aged sixty-eight. Viscount Crookshank was appointed Minister of Health in October 1951 and held office until he resigned in May 1952.

DARGAVEL.—On October 9, Dr. John Dargavel. *Mr. H. E. Chapman writes:* John W.

Dargavel was the outstanding figure in retail pharmacy in the United States. As executive secretary of the National Association of Retail Druggists, with a membership of 35,000, his authority and influence and his success in bettering the economic status of the membership he served was unrivalled. In his executive office with the N.A.R.D. and as chairman of the Bureau of Education on Fair Trade it may be claimed that he did more than any other American to promote and preserve the system of price-maintenance known in the United States as "fair trade." More recently his ener-

gies had been devoted to the promotion of a nation-wide campaign, directed to ensure the passage by Congress of the Fair Competitive Practices Bill—designed to place fair trade on a secure federal basis. His known activities and wide knowledge in this field led the Council of the Proprietary Articles Trade Association to invite Dr. Dargavel to visit England in 1955. He accepted the invitation and discharged with a conscientious sense of responsibility and with brilliant success the full programme of assignments arranged for him: Press conference, dinner at the House of Commons, addresses to the P.A.T.A. Council and to a large meeting of representative trade organisations, interview with senior officials of the Board of Trade and various other appointments gave him little time for relaxation. At his farewell meeting with the P.A.T.A. Council the president (Mr. D. A. Rees), said that on his return to America Dr Dargavel would carry with him the Council's grateful thanks for his help. He had given those who had met him the informed American point of view on the working of price-protection in his own country—a service which had been of great value. The Council and all who had met him had been impressed by the charm of his personality, his modesty and kindness. Dr. Dargavel graduated as a pharmacist from the College of Pharmacy of the University of Minnesota in 1915, was awarded the honorary degree of Doctor of Pharmacy, University of Rhode Island, in 1943, in recognition of his work, and was selected "Man of the Year" in the drug field for 1954. He said, in response to the tributes paid to him at a testimonial dinner in Chicago in April 1955: "I was the owner of a drug store in Minneapolis at the time I first became interested in the N.A.R.D. It had been made plain to me that organised nationwide action was mandatory for the independent druggists, and I decided to take an active part in the activities of the N.A.R.D. I accepted every task assigned to me with the hope that I could be of help in the advancement of pharmacy and the independent drug store as such. I have seen the N.A.R.D. rise from the status of just another trade association to the position of topmost recognition. I pledge anew that as long as I live I will continue to strive for the progress of pharmacy and the betterment of the independent druggists of the country." That pledge John Dargavel fulfilled up to the date of his untimely death. His name is perpetuated in the Dargavel Foundation, which discharges, in a wider field and on a more extensive scale, functions similar to those of the Pharmaceutical Society's Benevolent and Glyn-Jones Memorial funds.

EVANS.—On June 30, Mr. Howard Llewelyn Evans, M.P.S., Briarwood, Tywinch Road, St. Mellons, Mon. Mr. Evans qualified in 1932.

HOYLE.—On October 2, Mr. Herbert John Hoyle, M.P.S., 4A Filmer Road, Dawes Road, London, S.W.6. Mr. Hoyle qualified in 1899.

QUIRKE.—On September 28, Mr. William A. Quirke, M.P.S.I., 53 O'Connell Street, Clonmel. Mr. Quirke,

who qualified in July 1925, was a native of Clonmel where he carried on his own business for over thirty years. Prominent in local public life, he was a member of the Clonmel Chamber of Commerce and numerous social organisations. Deeply religious, Mr. Quirke was a member of the Third Order of St. Francis. He is survived by his widow and a son and daughter, both of whom are pharmacy students.

WHITE.—On October 11, Mr. Charles Henry White, M.P.S., 38 Aldsworth Avenue, Goring-by-Sea, Hants. Mr. White, who qualified in 1902, was in business in Oldbury, nr. Birmingham, for most of his pharmaceutical career. At one time he had several branches, all of which passed into the possession of the men he had trained to manage them.

Mr. C. H. Smith writes:—Charles Henry White, who was in business in Oldbury for about fifty years up to 1952, will be remembered with affection by innumerable private chemists in the Birmingham and Black country area. The many successful pharmacists of today who recall how they learned their profession in his busy shops will remember his quiet efficient ways, his most helpful advice, and, above all, his never-failing kindness and generosity to all who needed help. In local associations his contributions to any discussions always bore the hall mark of clear, sincere thought and showed a high regard for private pharmacy of which he was a tireless champion.

WOOLLONS.—On October 3, Mr. Charles Bertram Woollons, M.P.S., 28 Kilburn Lane, London, W.10. Mr. Woollons qualified in 1907. He is survived by his widow, Mrs. L. J. Woollons, who is also a pharmacist, and a son and daughter.

PERSONALITIES

MR. EDGAR HILL, 21 Welbury Drive, Bradford, was installed as president of the Bradford Scientific Association on October 6, when he delivered an address on "Adventures in the application of science to industry." Mr. Hill has been engaged in industry and research since 1912. While a student at the Bradford Technical College in 1908 he obtained first place in an analytical tournament for students organised by "THE CHEMIST AND DRUGGIST." In the same year he qualified as a pharmaceutical chemist.

THE newly appointed general manager of Pharmaceutical Specialities (May & Baker), Ltd., is Mr. R. W. E. Wood [corrected note].

OVERSEAS VISITS

MR. J. R. BOWDEN (sales director, Crookes Laboratories, Ltd.) has left on a business flight to several of the company's representatives abroad. He is to visit Thailand, Singapore, Hong Kong and Bombay.

MR. E. K. MILLER (retail sales manager, Bowater-Scott Corp., Ltd.) has left for a five-week stay in the United States. He is visiting the Scott Paper Co. (Bowater-Scott's American associates), Philadelphia, and meeting members of the distributive trade in Bala-Cynwyd, Buffalo and Chicago.



Scientific Adviser and the Chemical Industry

SIR SOLLY ZUCKERMAN AT CHEMICAL MANUFACTURERS' DINNER

A FORECAST that the demands for the products of the chemical industry in Britain would continue to rise was made by SIR SOLLY ZUCKERMAN (Scientific Adviser to the Ministry of Defence and deputy chairman, Advisory Council on Scientific Policy) on October 11.

Sir Solly was speaking as principal guest and replying to the toast "Our Guests" at the annual dinner of the Association of British Chemical Manufacturers held in London. Sir Solly also suggested that the manufacturers would continue to finance and service most of the research and development on which their future depended, and that they would, as in the past, find a way of making research pay. Over the past ten years the output of the British chemical manufacturers had increased in real terms by about 75 per cent. and they were contributing 7 per cent. to the total output of British industry. Chemical exports had more than

cent. in three years. . . . In the three years between the two surveys you were employing one and a half times as many professional scientists and engineers as you did at the start; and as a result, professionally trained manpower in the chemical and associated industries had increased from 2.7 to 3.7 per cent. of your pay roll."

Sir Solly continued, "The interesting thing is this: if the average proportion of the qualified man-power of your industry as a whole, in which I shall now include mineral-oil refining and synthetic textiles, rises to that of your leading firms today, then your total employment of qualified man-power will rise, in the course of the next ten years, from about 15,000 (which it is now) to about 40,000 or more. That is nearly a three-fold increase. By that time 8 per cent. of your pay roll is going to be represented by professionally qualified chemists and chemical engineers."

major problem posed for us by the Government during the past few weeks. The Chancellor's proposals for long term planning designed to bring our rate of economic growth more in line with that of other countries will, I know, be faced by us with confidence. Following an approach to some of us, the Board of Trade has already completed a report on the long term planning of the future of this particular industry. In addition, our continuing efforts in the field of productivity and in the establishment of good labour relations have resulted in a rate of growth for this industry and in an increase of productivity almost double that of British manufacturing industry as a whole. That achievement shows that, given the right spirit in industry, the Chancellor's problems can be solved by voluntary co-operation without the need of any national system of physical controls or other restrictions."

The annual report for the year ended



Mr. B. Hickson (a vice-president of the Association) is greeted on arrival by the chairman. Mr. H. W. Palmer (president, Association of the British Pharmaceutical Industry) with Mr. A. K. Ames (chairman, British Colour Makers' Association). Sir Graham Hayman (a vice-president of the Association) is greeted on his arrival by the chairman. W. A. Williams (A.B.C.M. staff) with Mr. R. B. Dawson (chairman, British Aerosol Manufacturers' Association).

doubled in the past ten years and with the enormous overseas competition it was still a matter of congratulation that British manufacturers continued to provide about 15 per cent. of the total of world exports of chemical products. All that was reflected in the figures of the industry's employment of professional scientific man-power, and in its increased demands for such man-power.

In 1948 the total annual "output" of professional chemists was 1,200 and there were thirty graduates in chemical engineering. Today they were well over 1,500 and 200 respectively—more than a twofold increase since the beginning of the war.

A 20 per cent. Increase of Scientists

Dealing with employment figures Sir Solly said "Our first useful estimate of the total number of professional scientists and engineers in this country was made in 1955, and the figure we got for the industry was about 140,000, of whom around 40 per cent. (about 50,000) were in manufacturing industry. The chemical industry and associated industries accounted for about one-sixth of that 50,000, and that meant that 2.7 per cent. of the total pay roll was professional. By 1959 the grand total of professional scientists and engineers in the country had risen to over 173,000, an increase of about 20 per

Sir Solly anticipated that the average age of professional men in the industry would continue to fall during the new decade.

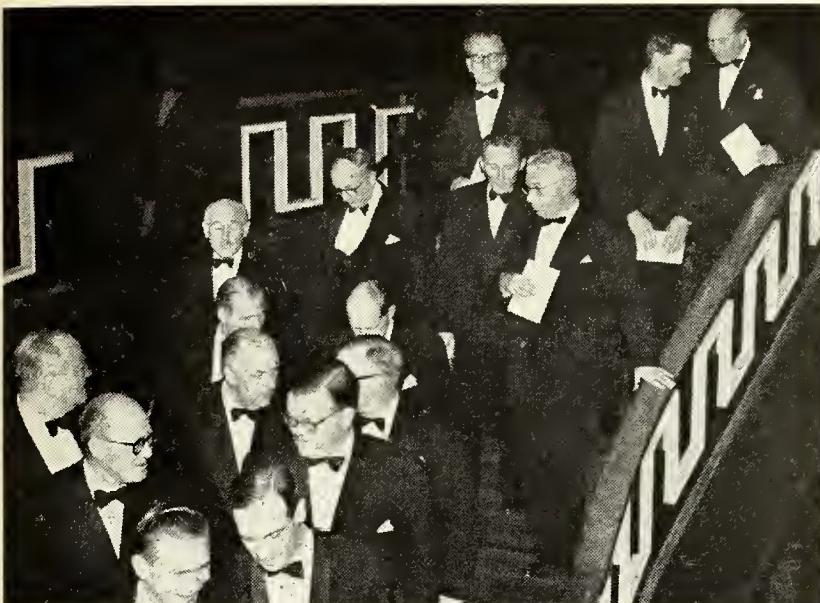
Annual Meeting

At the Association's annual general meeting held on October 12, THE CHAIRMAN said "A year ago, when this country became a member of the European Free Trade Association, it was our expressed hope that this would be a preliminary step to the early formation of a single West European trading area. A year's experience as a member of the Outer Seven has not, I believe, changed that hope, and so it is pleasing to see that, since the end of our Association year, the Government has at last taken the definite step of applying to the Six to negotiate our entry into the Common Market. The negotiations may be long and will be difficult. Entry into the European Economic Community, if it is achieved, will give rise to problems for each individual member firm as well as for the Association representing the whole. Our experience in assimilating the requirements of the articles of the Stockholm Treaty into our general pattern of trade and industry will help us in dealing with similar tasks in connection with the Treaty of Rome. I feel we are on more certain ground in dealing with the second

June 30 states that concern was felt during the year at the increasing attacks in the Press on the use of chemicals in foodstuffs and agriculture. A serious precedent had been created by the so-called "voluntary" ban on the use of sodium and potassium arsenites as potato haulm killers, imposed largely because of the emotional impact, whipped up by a Press campaign, of the name on the public. There was a serious risk that, from political considerations, other products might be affected, and an increase in unnecessary or unreasonable Government restrictions might seriously hamper the introduction of new products. The extent to which the matters com-



Dr. J. S. Carter (Chief Alkali Inspector) with Dr. H. K. Black (H.M. Inspector of Explosives, Home Office).



Left: Diners descend the stairs to take their places at the tables. **Right:** The chairman (Sir William Garrett) with the guest of honour (Sir Solly Zuckerman, C.B., F.R.S., scientific adviser to the Ministry of Defence and deputy chairman, Advisory Council on Scientific Policy) with Mr. C. E. Harrison (president, Federation of British Industries), Sir Howard Florey (president of the Royal Society), Dr. F. H. Carr, C.B.E. (a vice-president of the Association), Professor Sir Alexander Todd, F.R.S. (president of the Chemical Society and Master of the Salters' Company), Sir Harold Roxbee Cox (chairman of the Council for Scientific Research, Department of Scientific and Industrial Research), Sir William Slater (president, Royal Institute of Chemistry), Sir Richard Powell, K.B.E., C.B., C.M.G. (permanent secretary, Board of Trade) and Lord Fleck, K.B.E., F.R.S. (president, Society of Chemical Industry).



Sir Howard Florey (President of the Royal Society) with Sir Harold Roxbee Cox (chairman of the Council for Scientific Research, Department of Scientific and Industrial Research). Sir William Garrett, M.B.E., J.P. (chairman of the Association) with Sir Solly Zuckerman. Sir William Slater (president, Royal Institute of Chemistry) with Sir Richard Powell (vice-president of the Association). Mr. J. C. Christopherson (a member of the Association's Council) with Mr. R. A. Jones (Industries and Manufactures Department, Board of Trade).

plained of were already covered by legislation was either little realised or deliberately ignored. In consequence of those attacks, and in view of the increasing tendency of the Government to place restrictions on the use of chemicals, the Council had set up a special committee to examine the matter. The committee felt the great need was for improved intelligence and contact with Members of Parliament, the Parliamentary and Scientific Committee, and the Government departments concerned.

Patents Problems

During the year the Patents Committee had continued to discuss the possible amendment of the Patents Act, 1949, and had examined the position of patents in connection with the European Free Trade Association and the Common Market. The committee suggested that the chemical industry should not give its views in isolation, considering that a central body should be invited to co-ordinate the views of industry as a whole. The committee supported in principle the idea of a European patent. Consideration was also given to the implication of the action by the Government in connection with supplies of certain pharmaceutical chemicals and section 46 of

the Patents Act. The Trade Marks Committee had reviewed the question of trade marks in connection with the European Free Trade Association and the Common Market, and had informed the Council that it felt unable to give advice until the situation had been clarified.

Officers for 1961-62

The Council of the Association for 1961-62 is as follows:—*President:* Mr. B. Hickson (Hickson & Welch, Ltd.). *Vice-presidents:* Dr. F. H. Carr, Dr. E. V. Evans, Sir Graham Hayman (Distillers Co., Ltd.), Sir Harry Jephcott (Glaxo Laboratories, Ltd.), Mr. C. F. Merriam, Mr. G. F. Williams (The British Drug Houses, Ltd.). *Chairman:* Mr. J. C. Hanbury (Allen & Hanburys, Ltd.). *Vice-chairman:* Mr. M. J. C. Hutton-Wilson (Associated Chemical Companies, Ltd.). *Treasurer:* Mr. J. L. Harvey, M.B.E., D.L. (Fuller's Earth Union, Ltd.); and Messrs. G. H. Beeby (British Titan Products Co., Ltd.), E. L. Bush (W. J. Bush & Co., Ltd.), G. H. W. Cullinan (Shell Chemical Co., Ltd.), W. A. M. Edwards (Imperial Chemical Industries, Ltd.), W. K. McGavin (Shell Chemical Co., Ltd.), P. D. O'Brien (Laporte Industries, Ltd.), F. S. Poole (Peter Spence & Sons, Ltd.), H. G. Rolfe (The British

Drug Houses, Ltd.), W. D. Scott (Imperial Chemical Industries, Ltd.), E. Stein (Distillers Co., Ltd.), J. E. Taylor (Unilever, Ltd.), J. H. Townsend (Imperial Chemical Industries, Ltd.), B. White (A. Boake, Roberts & Co., Ltd.), G. H. Carnall (The Clayton Aniline Co., Ltd.), J. C. Christopherson (Albright & Wilson, Ltd.), C. E. Evans, O.B.E. (British Hydrocarbon Chemicals, Ltd.), N. F. Patterson, O.B.E. (Monsanto Chemicals, Ltd.). *Director:* Mr. G. Bearley. *Deputy director:* Mr. H. W. Vallender. *General secretary:* Mr. A. J. Holden.

EXPANSION PLANS

LAPORTE CHEMICALS, LTD., have entered into an agreement with the Spanish company, Peroxidos, S.A., to provide technical assistance and advice on the construction of an auto-oxidation hydrogen peroxide plant near Saragossa, Spain. Initial capacity of the plant will be 1,000 tons of hydrogen peroxide a year (calculated as 100 per cent.). Production is planned to start in 1963, subsequently rising to 1,500 tons. The arrangements have been made in conjunction with Foret, S.A., Barcelona, whose connections with Messrs. Laporte cover a period of nearly thirty years.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Those Clinic Packs

SIR.—I give my whole-hearted support to Mr. Donald R. Slater's criticism of clinic packs of Ostermilk (*C. & D.*, October 7, p. 394). I have written to the firm and expressed my strong disapproval of such cut-throat methods of dealing and have now changed over to other makers' preparations of penicillin suspensions and tablets, hydrocortisone creams and ointments, lotions, prednisolone tablets, etc., on "open" prescriptions.

W. W. CAMPBELL,
Bournemouth

Apothecary into Pharmacist

SIR.—I am preparing a paper entitled "From Apothecary to Pharmacist" in which I trace the change of title that has occurred in many countries from some form of the word "apothecary" to some form of "pharmacist." I believe that the title "apothecary" is used for pharmacies at Kidderminster and Rye in England, at Dumfries, Fort William, Kinross, Bothwell, Glasgow and Larkhall in Scotland and at Holyhead and Denbigh in Wales. I should be glad to know of any other examples. In the registers of pharmacies of Ireland and of Northern Ireland none of the pharmacies listed mentions the word apothecary, though I understand that the title "Apothecary's Hall," is still occasionally used in Ireland. I should be glad to hear of any examples.

T. D. WHITTET,
University College Hospital,
Gower Street, London, W.C.1

Substitution Dilemma

SIR.—The question posed in the letter from Mr. H. P. Whiteside under the above heading (*C. & D.*, October 7, p. 394) is an example of the confusion that has arisen in the minds of doctors and raises important issues. To answer Mr. Whiteside's question, the correct procedure in this case is, in our opinion, to refer back to the doctor. A chemist has a duty to follow the instructions of the doctor writing the prescription. If he fails to do so without reference to the doctor his conduct could be considered as unprofessional. If a chemist followed the instructions given in this particular instance he would be infringing a registered trade mark, the owner of which could take legal proceedings against the chemist. If the doctor were aware of the legal position, it is surely unthinkable that he would give instructions that would result in the infringement of a trade mark and the exposure of the chemist to legal action. Apart from the legal position there is a dispensing problem which is potentially far more serious. If a chemist dispenses ac. acetylsalicyl. tablets and labels them "Paynacil substitute," he has to ask himself if the word "substitute" is a fair description, inasmuch as the two tablets are (a) of different strength and (b) have a different chemical composition. Your

correspondent may well ask what we are coming to!

BEECHAM RESEARCH LABORATORIES,
LTD.,
G. J. WILKINS, Managing director,
Brentford, Middlesex

£ Mega Foolish?

SIR.—Regarding the information that the Ministry of Health is buying chlorothiazide and tetracyclines generally from Italian and other sources, it would be interesting to know the reactions of patients (particularly those related to Government officials) on being told "you will be getting so and so. It is just as good." If the whole idea of saving money in this way is so good, why not extend it further and import a few Italian physicians and surgeons at appropriate cut prices and—even better—a good number of Italian nurses to brighten up our hospitals. If I know the medical profession they will insist on branded tetracyclines, etc. Remember what happened to diamorphine? Had the wise guys in Whitehall left it alone it would have died a natural death. Instead they said "you, the medical profession, cannot have it," and the doctors became quite determined to continue having it. And quite right. They will also, I believe, continue to demand branded tetracyclines and chlorothiazides. The Government will probably end up losing £½ or £1 mega.

A. BELL,
London, E.3

Assistants and Their Certificate

SIR.—I am perturbed at the ill-natured and ill-informed statements reprinted under the heading "Assistant's Certificate" (*C. & D.*, October 14, p. 413) from the Registered Pharmacists' Union's "News and Views." Far from there being any possibility of the Pharmaceutical Society being able to introduce a syllabus for the training and examination of Assistants or of there ever being a "horde of State-registered dispensers holding certificates issued by the Society of Apothecaries, technical institutes and Old Uncle Tom Cobley and all," the position is that only the Society of Apothecaries, by an Act of 1815, twenty-six years before the founding of the Pharmaceutical Society, has the legal right to lay down a syllabus and examine Assistants-in-dispensing. Were it not for the existence of the Assistants, the dispensing side of the National Health Service would completely break down. I am informed by an eminent pharmacist that there are about 1,500 hospitals of over 100 beds each and 1,200 pharmacists of all grades available to staff the pharmacy departments. Of that small number, one hospital has fourteen, another twelve, while a few others have between four and ten each. The obvious minimum is three (to allow for leave and sickness) which means an overall shortage of about 3,500 pharmacists. The matter is of obvious concern to me since this College is the

only remaining college in England, south of Yorkshire, training exclusively for the Assistants' examination, and our maximum annual intake (never realised since 1947) is seventy students per annum, or less than the number required to replace wastage by death, retirement and marriage. To clear up two points raised in recent meetings of pharmacists, I must make it clear that (a) though there is no longer a chemistry paper in the examination, all our students are given a specially designed course in chemistry, far in advance of that laid down in the 1953 regulations; and (b) it is hammered into all our students that, because they are assistants to pharmacists, who carry a heavy legal responsibility, they must realise their own moral responsibilities and never exceed their authority.

LESLIE G. LUKER, Principal,
London College of Chemistry and
Pharmacy for Women

A Link with Livingstone

SIR.—We have received from African Mail, Ltd., Northern Rhodesia, a letter telling of "an interesting discovery made in Northern Rhodesia this week." The letter states that:

"While inspecting a Lubwe clinic in the Northern Province of Northern Rhodesia, Dr. Malcolm Moffat [a descendant of the famous missionary Dr. Moffat] discovered an old tin of pills labelled 'Livingstone's Rousers' and made up for Dr. Livingstone by your firm. We are given to understand it was Dr. Livingstone's prescription which you made up for him. . . . Dr. Moffat is presenting the pills to the Rhodes-Livingstone Museum at Livingstone, Northern Rhodesia. They are in perfect condition, yellowish-brown in appearance and seem to be made of camomile and quinine. We have been told the pills are still being marketed and should be interested to have any comment you might like to make. In Northern Rhodesia, history only really dates back to Livingstone's time, so these pills are arousing much interest. Your address is still decipherable on the tin."

Our 1931 catalogue shows that we were then still selling pills called Livingstone's Rousers at 2s. 6d. per gross but we have long discontinued to sell them. Their formula was:—

Pulv. jalapae	gr. 1½
Pulv. rhei East Indian	gr. 1½
Hyd. subchlor.	gr. 1
Quinine bisulph.	gr. 1

From an article in the *Guardian* on October 7, dealing with Livingstone's Rousers, it seems almost certain that the name of the company is given as Gale, Baiss & Co., Ltd., and the address as Canterbury Road. As it was in 1934 that the title of the company became Gale Baiss, and as it was in that year that the company moved to Canterbury Road, it is obvious that the pills that were found at Lubwe must be less than thirty years old.

GALE, BAISS & CO., LTD.,
D. W. PLAISTOWE, Managing director,
London, S.E.15



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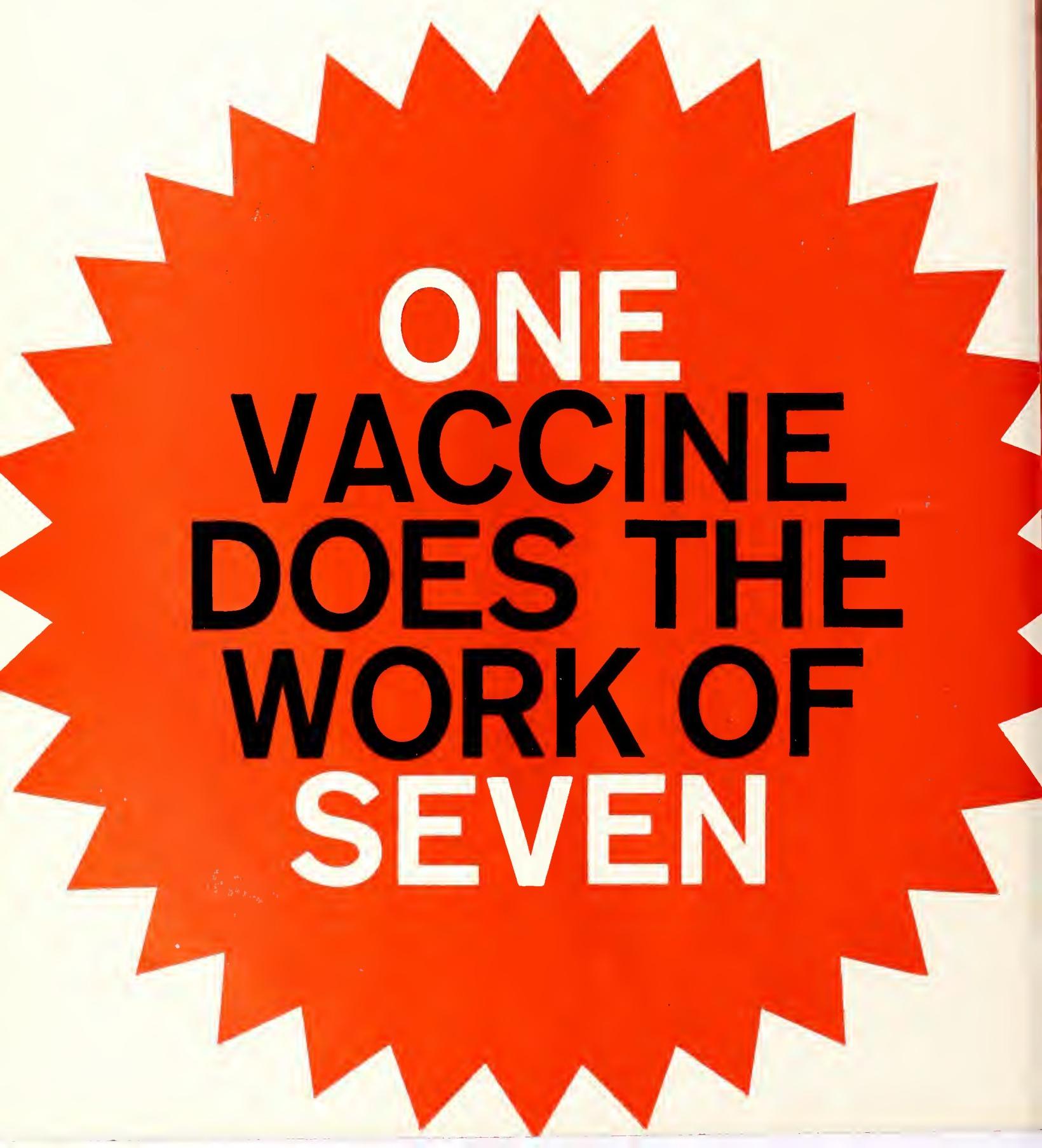
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- 6 DYSLAM^{*} SERUM** for Lamb Dysentery

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Professional Recognition the First Step

"It may be that we have come to the parting of the ways" said Mr. G. H. M. Graham (chairman, Central N.H.S. (Chemist Contractors) Committee) in explaining the Committee's rejection of the Ministry of Health's latest offer (see p. 442). The words serve to emphasise the gravity of the situation that has arisen between the contractors' representatives and the Ministry. It will be recalled that, following a conference of representatives of Pharmaceutical Committees in London on June 7 (see *C. & D.*, June 10, p. 587) the Central N.H.S. (Chemist Contractors) Committee put in a demand for a professional fee of 2s. per prescription and increases in the fees for rota services and for dispensing urgent prescriptions. The Ministry's reply proposes that the average dispensing fee should be increased by about 2½d. per prescription; that the oncost should be on a sliding scale, averaging approximately 18 per cent. (instead of the present 25 per cent.); and that there should be small increases in the fees for urgent dispensing and for rota duties. It would appear that the Ministry has ignored or misjudged the essential element in the contractors' claim, namely that there should be a professional fee independent of any payment for materials. The Ministry has also, whether intentionally or otherwise, overlooked the insistence of the contractors on getting away from "inquiry after inquiry," for the Permanent Secretary urges the Committee "to join with us in attempting to devise some way of producing information at regular intervals as a basis of keeping remuneration under review." The Ministry's present policy, it seems, is to make as little change as possible in the present basis of payment.

Proof of the intention of the Ministry to procure medicine on the cheap is to be found in the assertion that there is no evidence that the present container allowance fails to reimburse the chemist for the containers he uses, and that "if and when" the chemist does use more expensive containers than at present, the allowance "will have to be reviewed, but we cannot agree to reimburse chemists for expenses that are not being incurred." In other words the Ministry refuses to provide payment for satisfactory containers until the chemists have subsidised the service for a period which, on the experience of past wranglings, could be expressed in years rather than months. (Some contractors, it may be mentioned, are in fact subsidising the service in that way at the present time.)

Contractors are left in no doubt where the Central N.H.S. Committee stands at this "parting of the ways." A statement issued to the Press quotes Mr. J. Wright (the Committee's secretary) as saying:—

"One hundred and seven days elapsed between the lodging of our claim and the written reply by the Ministry . . . I received a second letter from the Ministry on October 4 saying that they had hoped that their letter of September 22 'would be considered by your Committee at its meeting on September 26 and that you would be able to reply shortly afterwards.' They had the temerity to add an enclosure stating precisely how the Ministry would apply the cut which they propose on pharmacists' oncots on the trading side of our work. This, in my view, is typical of the dictatorial attitude of the Ministry of Health towards my professional members. . . . We are not going to be dictated to."

Acting in that spirit the Committee wrote in its reply to the two letters from the Ministry:—

"We cannot agree that the question of the pharmacists' fee for dispensing National Health Service prescriptions should be complicated by any other consideration, and the chemist contractors of England and Wales are absolutely unanimous in this view. . . . We reject absolutely the Ministry's view that the professional aspect of our work and the trading aspect of our work should be considered as a whole. We demand, and are not prepared to accept a refusal on this point, that we should receive professional fees for our work. The question of the professional fee is the first point to be clarified; without clarification on this point it is impossible to proceed with the detailed discussion of the other points raised in our claim."

Mr. Graham has promised: "We shall try to obviate any inconvenience that might be caused to the public if we are forced by ministerial action to withdraw from the National Health Service. . . . The Ministry, however, must understand that if they want us to co-operate in the National Health Service, which we have done as much as any other profession to build up, then we must be treated as professional men."

Discussion Rendered Futile

ONCE more (see p. 440) the Council of the Pharmaceutical Society has issued statements making known its views on matters that affect the practice of members. The new statement concerning the display of literature on family planning is recognisably in line with paragraph 10 of the Statement Upon Matters of Professional Conduct, by which members of the Society have been guided for a number of years. The same, however, cannot be said about the statement warning against the use of certain specified forms of advertising. While we deprecate as much as anybody the use by pharmacists of unsuitable media, we are a little perturbed at the timing of the action of the Council in this matter and the extent of the ban. The Statement Upon Matters of Professional Conduct clearly forbids advertising of dispensing services, and it may be that in process of time all forms of advertising may come to be prohibited. But at present it has to be recognised (a) that pharmacy's retail sector includes a range of activities unconnected with the supply of drugs and medicines (for example, the sale of cosmetics and/or photographic goods) that are engaged in without detriment to, or effect upon, professional status, and (b) that the extent to which such advertising is or is not legitimate is one of the topics in the report on general practice which the Society's president was at pains to point out at Portsmouth had been

no more than "received" by the Council and was open for free discussion by members everywhere. By approaching advertising agents known to act on behalf of transport corporations and the Postmaster General, and requesting them not to approach members of the Society, the Council has "jumped the gun." The recent Report on the General Practice of Pharmacy submitted to members at the British Pharmaceutical Conference, Portsmouth, refers to advertising "through undignified media, such as bus tickets, litter bins, cinema screens and telephone kiosks." Before even that recommendation has been approved, whether tacitly by members or formally by the Council, it has been applied to the transport tickets and telephone kiosks. (Strange that the litter bins

and cinema screens have been left untouched.) Why?

At the Professional Session at Portsmouth the president of the Society, as we have mentioned, said the report had been "received" by the Council but not debated by it, and at the last meeting of the Council (see *C. & D.*, October 14, p. 424) he again mentioned that the report had been "aired," adding the hope that branches would get down to some real thinking on the matter so that the Council would have an opportunity later to formulate policy.

What is the point of branches discussing what is already in operation, and if the Council has not debated tram-ticket publicity, who has formulated the policy of banning it?

"OPEN SHOP"

AN UNSCRIPTED COMMENTARY ON THE SPECIAL PROBLEMS OF THE PHARMACIST IN RETAIL PRACTICE

E. C. TENNER

FROM the twelfth century drugs (or spicery) were sold by the pepperers and the spicers—wholesale and retail respectively. Forced loans raised by Edward III to finance his military campaigns ruined and caused the dissolution of the Guilds of the Pepperers and Spicers, and in 1328 the pepperers adopted the name *Grossarii* or grocers and formed the Fraternity of St. Anthony, which became the Grocers Company in 1373. Henry VI granted a Charter to the Grocers Company in 1428. The members of that powerful company, specialising in the sale of drugs, took the name of Apothecaries and James I granted them a Charter which formed them into a separate company in 1617 and gave them a monopoly in the sale of drugs and medicines.

As time went by the apothecaries engaged more and more in medical practice and neglected their original function of selling and supplying medicines, and that increased the livelihood and importance of *chemists* and *druggists*. The druggists were members of the Grocers' Company who specialised in the sale of crude drugs to apothecaries. They were the forerunners of modern wholesalers. "Chemists" were not members of an incorporated body but were a disorganised class engaged in the preparation of inorganic medicinal substances. It is not necessary for my purpose to delve into this fascinating period of social evolution or to examine the concern that was being felt by the physicians, but to point out that matters culminated in 1815 (the year of Waterloo) in the passing of the Apothecaries Act. That Act allowed apothecaries to register as medical practitioners. It defined and reserved the craft of chemists and druggists as compounding and dispensing drugs and medical compounds and selling them by wholesale and retail, but the other grocers were not mentioned. The medical profession did not regard that state of affairs as satisfactory and, under the threat of further legislation to bring pharmacy under the control of the physicians, the Pharmaceutical Society of Great Britain was born and received its Charter. That story is well known. What is not always appreciated is that the grocers, left out in the cold since 1815, are still waiting in the wings ready to enter on the scene and steal the show if the chemists and druggists neglect their part of selling drugs and medical compounds, the grocers' incentive being, of course, derived from the fact that chemists' gross margins of profit are today much greater than their own. The centuries-old struggle for the medicine market is by no means over. Complacency and defeatism can lose it for the chemists and druggists (pharmacists) and hand it to the grocers—whatever the moral rights of the matter are and on whichever side they may be!

You may ask "Whatever is all this to do with 'Open Shop'?" Is it not more suitable to a lecture on the history of pharmacy? Well, I have just read an attractive and

colourful circular folder of County Laboratories, Ltd., which is headed on the first page "Mr. Grocer COME CLOSER!"

No pharmacist will disagree when I assert that the so-called "toiletries market" was created by his own pharmaceutical colleagues. Therefore every pharmacist will be greatly interested by the message which the County Laboratories concern is sending out to Mr. Grocer:

"The grocer's share of the expanding toiletries market grows and grows. County Laboratories, Ltd., makers of Maclean's tooth-paste, Brylcreem, Silvikrin shampoo, Vosene and many other world-famous brands, are now able to give DIRECT SERVICE to grocers."

Special terms, closer contact and bigger profits are offered to Mr. Grocer. He is told, with colourful pictures: "Grocer sales of Silvikrin shampoo have doubled in the last years."

... "Eight out of ten grocers stock Brylcreem," ... "Maclean's tooth-paste sales in grocers have more than doubled in the last five years," "More grocers stock Vosene than any other medicated shampoo. Sales of Vosene in grocers have increased over five times since 1957." Finally, Mr. Grocer is introduced to four "Other Famous County Lines": Silvikrin hair cream, Amami wave set, Bristow's lanolin shampoo and Body Mist deodorant. The County message to Mr. Grocer cannot be ignored by Mr. Pharmacist—to him it reads as a grim threat to his livelihood—a reminder that the ancient struggle for survival is going on now as fiercely as ever before. But I think the correct answer to this direct attack on our preserves is to improve our selling methods. Pharmacists in the past have always been ready to develop new markets and methods: Toiletries, cosmetics and photography are good examples. Now the pharmacist must turn his scientific training to improve his actual selling methods or the grocers, themselves engaged in mortal combat with the supermarkets, will turn on him and take away his life sales. Grocers are beginning to use the most modern selling machinery and technique. We must do likewise.

We have had Dr. Goodenough calling us down on the professional side, now we have a great financial empire interested in building up our old antagonist Mr. Grocer against us on the economic front. No wonder chemists' meetings are becoming well attended!

CORRIGENDUM: During discussion on the paper "Ion-exchange Chromatography on Alginic Acid" at the British Pharmaceutical Conference recently (*C. & D.*, October 14, p. 428), Dr. W. Mitchell suggested that damping of the acid with a 50 per cent. aqueous solution of alcohol might assist subsequent granulation to the required mesh size for packing into a column, and Dr. D. Train thought the method was worth following up, adding that the material so produced would probably show more reproducible surface conditions because of the closer range of particle sizes produced.

Pharmaceutical Society of Ireland

ANNUAL MEETING AT DUBLIN

AN appeal to licentiates of the Pharmaceutical Society of Ireland to become members and take a greater interest in the Society's activities was made at the annual meeting in Dublin on October 9, when the seven outgoing members of the Council (Messrs. H. P. Corrigan, P. A. Brady, C. J. Cremen, J. Gleeson, V. McElwee, F. J. Robinson and T. B. O'Sullivan) were declared re-elected, no further nominations having been proposed.

Thanking the various wholesalers and manufacturing firms and others who had contributed to the College of Pharmacy Fund, THE PRESIDENT (Mr. F. Loughman)—who was unanimously re-elected at the monthly meeting of the Council of the Society on October 10—said that many demands had been made on their generosity in the past, but that this was the first time the Society had sought contributions for providing students with the best possible teaching facilities. Total contributions to date were "reasonably good," but, said the president, they still fell short of what was needed to carry through the programme originally envisaged. It would be necessary to approach the Ministers for Health and Education for contributions to enable their programmes for expansion of the College to be completed. Mr. Loughman understood that for science teaching purposes it was possible for the Government to make advances, and he was sure that, in the coming year, substantial contributions would be made. "It is rather extraordinary that a Society like ours, which is a statutory body, charged with the responsibility of qualifying pharmacists, must, as in the past, bear all the cost, while various other educational groups receive substantial grants towards the erection of buildings and provision of equipment," said the president. "I think our Society has an outstanding claim to receive Government assistance for the building project. I don't think the Government can fail to make a generous contribution, particularly when they know the urgency of this extra building and the necessity of equipping it adequately." The president said that the Council had donated 1,000 guineas towards the project out of its own resources.

Only Pharmacist in Dail

Congratulating Mr. P. A. Brady on his re-election to the Dail, Mr. Loughman said Mr. Brady was now the Society's sole representative in the House, where he was confident he would continue to watch the interests of pharmacists as well as those who had elected him. "From my personal knowledge of him over the past four and a half years, I can say he gave excellent service to the Society . . . his contributions were not only effective but most convincing." During the year death had claimed many old friends. The Society had lost eighteen pharmaceutical chemists, one dispensing chemist and druggist, one registered druggist and one assistant. In the same period nine names were added to the register of registered druggists, twelve to the register of assistants and forty-two to the register of pharmaceutical chemists. That number was approximately half the number who registered as pharmaceutical chemists during the preceding year and was, he said, a reflection of the smaller numbers entering pharmacy during the past decade. That position showed evidence of change, due to the introduction of the new degree course.

At the 1960 annual meeting, an account had been given of the negotiations leading to the establishment of the degree course. "You were informed that the Minister for Health had agreed in principle to the establishment of the course, subject to the production of suitable regulations which would not be *ultra vires* the Pharmacy Acts." Those regulations had been drafted and had received the approval of the Minister in August. Advertisements were immediately published in the leading newspapers instructing in-

terested students to apply before September 1. In addition, all who had made inquiries about courses during the previous twelve months had been circularised about the new procedure. "By September 1 we had received ninety-seven applications from students who wished to take the new course, and since that date there have been some further applications." A special meeting had been called to deal with the problems raised by the response. University College, Dublin, was overcrowded and had originally agreed to accept students provided the College of Pharmacy would help with laboratory and class-room accommodation. "Unfortunately," said the president, "our accommodation is restricted and we are not in a position to take more than fifty students for the second year of the course. For that reason it was necessary to decide on a quota for first-year students if we were to avoid a waiting-list. The figure of sixty-five was agreed upon, but that quota was increased to seventy-four to admit students who had applied in 1960 and were obliged to mark time until 1961. I should like to pay tribute to the great efforts made by the Science Faculty of UCD to meet us more than half-way."

State Aid Justified

"As you will appreciate when the honorary treasurer reads his report, the cost of conducting full-time lectures is high, and more than the Society can continue to accept. Although we are now relieved of the expenses of the science course, the second and third years of the degree course will be conducted mainly at the College of Pharmacy. A committee has been set up by the Council to prepare a memorandum for submission to the Minister for Education seeking State assistance for the College of Pharmacy. Apart from capital expenditure on buildings and equipment, the Society must secure an annual grant towards our educational costs." Relieved of that burden, the president stated, the Society could devote its funds to the Society's activities proper.

The generosity of those who had contributed to the Irish College of Pharmacy Fund, he went on, had enabled the Society to proceed with the first stage of its long-term policy, and the services of an architect had been retained to plan the expansion requirements. Although the Fund amounted to only £5,000, the Council felt justified in initiating building operations in view of the short time at its disposal. In addition to new students entering the College in 1962, Mr. Loughman said the Society would have to provide for students finishing under the old regulations and for students pursuing the Assistants' course. He paid public tribute to the generosity of those firms that had contributed to the College Fund during the year [a list of which would be published in the Society's Calendar at the end of the year]. Contributors to date include:—

Irish Pharmaceutical and Medical Representatives' Association, £10; Imperial Chemical Industries, Ltd., £150; Farbwere Hoechst, A.G., £50; Aspro-Nicholas of Ireland, Ltd., £105; May & Baker, Ltd., £50; Dominick A. Dolan, Ltd., £10 10s.; The British Drug Houses, Ltd., £50; Post-graduate Education Committee, £105; Smith & Nephew, Ltd., £10 10s.; CIBA Laboratories, Ltd., £100; Leo (Ireland), Ltd., £50; Association of Ophthalmic Opticians (Ireland), £5 5s.; Paines & Byrne, Ltd., £50; Warner-Lambert (Ireland), Ltd., £200; Lilmar Pharmaceuticals, Ltd., £50; May, Roberts (Ireland), Ltd. (second instalment), £105; St. Dalmas (Ireland), Ltd., £100; United Drug and Chemical Co., Ltd., £100; Glaxo Laboratories (Ireland), Ltd., £250; Association of Importing Manufacturers (on behalf of the Crookes Laboratories, Ltd., International Chemical Co., Ltd., Eli Lilly & Co., Ltd., Pfizer, Ltd., G. D. Searle & Co., Ltd., Upjohn of England, Ltd., T. P. Whelehan, Son & Co., Ltd., and John Wyeth & Brother, Ltd.), £395; Wigglesworth, Ltd., Bolton, Lancs, £50; Donald Boyd, Esq., £2 2s.

"I should also like to pay tribute to the members of the committee of management of the Fund who sacrifice their leisure time to attend meetings and to work for the good of pharmacy for no personal gain."

The president concluded his report on educational mat-

ters with a reference to the visit paid to the College in April by the Commission on Higher Education. They had been surprised, he said, by the amount of work carried out by the Society in the educational field.

During the year the Poisons Act, 1960, had received the president's signature, Section 2 of which empowered the Minister for Health to establish a Council (Comhairle na Nimheanna) to advise him—or the Minister for Agriculture—on all aspects of poisons control. In the Bill, as first introduced, two places had been allotted to pharmaceutical chemists on the Advisory Council. A deputation from the Society had represented the pharmacist's point of view to the Minister for Health and when the Bill reached the Committee Stage the Minister had introduced amendments and had increased the pharmaceutical representation from 20 per cent. to 33½ per cent. Judging by inquiries received, the president went on, there was some confusion about the present position. There were two main stages in the implementation of the Act: (i) The Minister would set up the Advisory Council; (ii) when the new schedule was prepared the Minister would bring it into operation on a specified date and would simultaneously repeal the old legislation. "Thus it will be seen that we continue to operate existing regulations until the new regulations become law. In this connection I would ask all pharmacists to exercise diligence in the observance of regulations governing controlled preparations. We all know that carelessly written prescriptions add to the labour of implementing regulations such as the Barbiturate Regulations. Nevertheless carelessness on the part of one pharmacist (or his assistant) could do much to harm the high reputation we have acquired over the years."

In a tribute to the assistance he had received during the year from the vice-president (Mr. G. C. O'Neill) MR. LOUGHMAN said that, so far as meetings of the Council were concerned, he had been able to give but little service, "because of his commitments as a member of the Dail." Of the outgoing treasurer (Mr. M. Costello) he said that "with limited funds and many commitments he had proved an ideal officer who had discharged a difficult task with distinction."

Compulsory Dues in Prospect

Dealing with the annual membership subscription of £4 4s., the president said that, while he was not suggesting it should be increased, he hoped that the new Pharmacy Bill would rectify the difficulties in regard to licentiates. He understood that, under the Bill, it would be obligatory on them to pay the annual membership subscription. That would help to put the Society's finances on a sounder basis.

As to the Council, the president said that he had never dealt with "a more able or co-operative group." The Society's members were to be congratulated on the personnel of the Council which they had elected. Mr. Loughman also said that the Society was fortunate in having such an able officer as Mr. J. G. Coleman (registrar). "His advice at all times has been exceptionally valuable."

Proposing adoption of the president's report, MR. P. B. JOY, Clonmel, said that pharmacy appeared to have made great strides in the educational field during the year. On the advent of the Common Market it was essential that the standard of pharmacy should keep pace with trends in other countries. The Council deserved the thanks of the members for their efforts in that direction. Regarding the Poisons Bill, Mr. Joy said it was "a very satisfactory one," and he hoped the Pharmacy Bill would be equally satisfactory. He believed membership would become compulsory under the new Bill and said that that was necessary because they appeared to be in urgent need of funds.

MR. LYALL SMITH, Dublin, seconding, said that . . . with the many changes in courses and curricula, the situation was somewhat confusing to many pharmacists, but it was reassuring to know that the Council knew where it was going. Mr. Smith said he thought licentiates should do more for the Society.

MR. M. F. WALSH, supporting, said the President was an able administrator, and what the Dail would be losing by his absence the Society would be gaining. He was sorry the Medical Representatives' Association had not secured representation on the new Poisons Council, but he was hopeful that it was not too late to rectify that position. His Association was a new body, "very pharmaceutically minded," and the Council, he felt, should meet them half way.

Appealing for support for the co-ordinating body, Mr. Walsh said that, irrespective of what Government attained power, there would be changes in the health legislation, and it was a matter of regret that no combined voice had been raised for pharmacy in recent weeks. He regretted that the president in his address had omitted any reference to the Post-graduate Education Committee beyond saying that they had contributed to the Trust Fund.

Regarding the Medical Representatives' Association, he did not think the Council had "sold itself" to that body. There was a feeling among many pharmacists that the Council were a group apart. He thought it would be a good idea if something were done by way of public relations to remove any such feeling.

Mr. Walsh said that recently he had been informed by three doctors that some chemists ("about 0·1 per cent.") were giving out restricted products across the counter. That was a serious matter, and if they secured assistance from the State they "should lose no time in appointing an inspector of the calibre of Mr. O'Briain." On the need for reciprocity he said there should be only one degree, which would be recognised throughout Europe.

Asking that medical representatives who were pharmacists, should be given every support in official quarters, he said that there had been "a few unsatisfactory appointments to companies recently." Companies complained there were no suitable pharmacists available.

"One of the Greatest Strides in Pharmacy."

MR. R. C. O'HIGGINS, Dublin, said the new Education Bill had been one of the greatest strides in pharmacy for a long time. Referring to an article written by a Council officer advocating the establishment of a national formulary, he said it was a wonderful idea that he hoped would soon be realised. One political party in the recent election campaigns had suggested a health scheme that would be worked through chemists. People in the lower and middle income groups would be able to go to the chemists and get their prescriptions at considerably reduced costs. It was a pity, he said, that they had not heard more about it. It had been the duty of the Irish Drug Association to make inquiries, but nothing had been done about it. He asked what efforts had been made to revive Pharmacy Week. It was a pity that, in spite of the efforts of the president, it had fallen through. The week provided an opportunity of meeting members of brother professions and "was good for the whole field of medicine generally."

MR. M. J. CAHILL, Dublin, said he had been told that, if hospital pharmacists were not satisfied with conditions of employment, the Minister could bring in anybody he liked to replace them. "Could a Minister replace hospital pharmacists with unqualified people?"

MR. R. J. POWER said that was entirely incorrect. Local authorities had accepted the fact, apart from the legal position, that it was essential to have qualified personnel.

MR. M. SHANNON, Dublin, appealed for support for the co-ordinating body, and urged that steps should be taken to see that the Barbiturate Acts were rigidly enforced. The Council should issue a stern warning to all retail pharmacists.

Replying, THE PRESIDENT said that, in regard to the Poisons Council, the Society's Council was anxious to secure pharmaceutical representation of a reasonable kind but he did not think there was anything the Council could do to secure representation for particular sections of pharmacists. On the question of making approaches to political parties

in advance of the election about their health legislation programmes, he said that candidates were prohibited from answering queries of that nature.

Dealing with breaches of the Barbiturate Acts he described them as "a serious matter" and an effort would be made to ensure that chemists were fully acquainted with its seriousness. The educational programme was being directed to improving standards so as to encourage reciprocity with other countries. He was unaware that any Party health programme had suggested that the public should have choice of chemist as well as of doctor. A choice of both, he believed, was a natural outcome of the present health regulations, and he had no doubt but that eventually the public would demand it. The choice of chemist would not cost much more than the present dispensary system and the chemists' smaller profits for prescriptions would be counteracted by the increased volume of business. Free hospital treatment service should be confined to people in the lower income group. After that they could tackle the question of insured persons. He assured Mr. Cahill that hospital authorities had undertaken to employ pharmacists. It was hoped to revive Pharmacy Week in 1962 to coincide with the annual meeting. Properly supported, he believed it would confer immense benefits in the field of education, as well as providing extra opportunities for social contacts on the lines of the very successful British Pharmaceutical Conference.

The annual report of the treasurer (Mr. M. Costello) disclosed a deficit of £1,100 as against £3,300 in the previous year.

The Benevolent Fund report disclosed that a total of £1,056 had been disbursed in grants during the year, against £958 in 1960.

Mr. Costello appealed to licentiates to subscribe to the Benevolent Fund. He said that the days of heavy expense were not over. Heavy expenditure in the matter of salaries for lecturers and professors were only beginning. They were understaffed at present and required money to remedy that position. Even with the new Pharmacy Act members' subscriptions would not be sufficient. It was "terribly unfair" that members' subscriptions should be devoted to subsidising the education of new students. That should be a matter for the State, the treasurer believed.

Proposing the adoption of the report, MR. M. L. CASHMAN said it would not be possible with the present technical staff to provide a suitable degree course. They could not run it on the budget they had which was too small even to run the domestic affairs of the Society. The present trend of annual loss could not continue indefinitely. If there was to be an increase in membership fee he hoped the benefits would go to the interests of members.

MR. P. O'BRIAIN, seconding, said the report was "anything but an optimistic one." He hoped the steps they were about to take would in the long run be of real benefit to pharmacy.

Basis for Reciprocity

THE PRESIDENT, replying, said the question of extra staff was under consideration. At present it was difficult to get suitable staff. They could not hope to have reciprocity until the Society's finances were placed on a sound basis. Having regard to the number of pharmacists who might become beneficiaries, it was astonishing that the total revenue from the Benevolent Fund was only about £1,000 a year, while the outgoings were greater. He appealed for greater support for the Fund in the coming year.

Antiviral Agents

DISCUSSIONS ON IMMUNOLOGY AND CHEMOTHERAPY

THE extent to which research in viral disease has progressed in recent times, and the amount of work that remains to be done before therapeutic measures can be taken against viruses generally, were topics of discussion at a meeting of the Society of Chemical Industry (Fine Chemicals Group) at The Wellcome Building, Euston Road, London, N.W.1, on October 6. Titled "Approaches to the Chemotherapy of Virus Diseases," the meeting was addressed by three speakers: Dr. A. Isaacs (National Institute of Medical Research), who spoke on interferon; and Drs. R. Hull (pharmaceuticals division, Imperial Chemical Industries) and D. J. Bauer (The Wellcome Laboratories of Tropical Medicine), both of whom presented the chemical approach.

Dr. Isaacs' paper followed the lines of his recent address to the British Pharmaceutical Conference (see *C. & D.*, September 23, p. 334). Referring briefly to synthetic antiviral agents, he stated that so far he had not found one that had sufficiently selective action to inhibit virus without adversely affecting human cell function.

Interferon appeared to be effective without being toxic. It was a protein secreted by a contaminating virus into the host cell; and it inhibited the growth of further virus by a process of "interference" with the growth process. The property of viral interference was possessed by interferon from plant, animal and bacterial viruses, and was retained whether the virus was alive or dead. Interferon could be isolated by precipitation with ammonium thiosul-

phate, followed by pressure dialysis and chromatographic separation. There was some measure of specificity in its action, it being more effective in protecting animals of the same species as the original host animal. However, monkey interferon also protected human cells.

It was most effective against virus having high oxygen requirements. In answer to questions, Dr. Isaacs said that, like interferon, dinitrophenol inhibited viral growth in normal cells (but not in cancer cells), but there was also "a tremendous increase in glycolysis." Interferon was ineffective against trachoma, which was not caused by a true virus; it was also ineffective against adenovirus and herpes virus.

The next two speakers discussed structure/function relationships of synthetic chemicals to viruses.

Dr. Hull said that of heterocyclic compounds synthesised originally for bio-assays, about 2,500 had "found their way into the virus testing unit." Various halogeno heterocyclics had been tested for activity, with varied results. After mepacrine had been shown to have antiviral properties, other acridines were synthesised and tested; the most effective was one produced by substitution of NO_2 for the Cl' at carbon 8.

About seventy years ago workers had produced tetrahydropyrimidines by condensation of aliphatic or aromatic aldehydes with urea and an acetoacetic ester. Introduction of a 5-nitrofuryl group into one of those compounds had recently been shown to render it

active against many viruses in the mouse and the chick embryo; the compound had no antibacterial effect.

The most active compound found so far was known as 17025. Its effect extended over the psittacosis-lymphogranuloma-trachoma group of viruses. It was insoluble in water. After intramuscular injection into the mouse, it was retained at the injection site for 4-5 days. "Though weight for weight it has only 1/10th of the activity of aureomycin," Dr. Hull concluded, "there are some prospects for its use."

Dr. Bauer described work using thiosemicarbazides against vaccinia virus. Greatest activity had been found with N-alkyl derivatives of isatin β thiosemicarbazide, given subcutaneously. They appeared to act only after the virus had entered the cell. Chelation (with copper) did not increase the antiviral effect. Activity appeared to be quite selective, and the speaker commented "It seems there is not much hope of finding a broad-spectrum antiviral agent." He thought there was a case for searching for antiviral therapeutic drugs against infections with high mortality rates, such as smallpox, where a vaccinated person exposed to the virus was still a carrier even though protected from serious infection. Dr. Bauer wondered whether prophylactic therapy was not sufficient.

In answering questions, Dr. Hull said that no work had been done on naturally occurring anti-metabolites. Dr. Isaacs thought it was unlikely that chemical agents would interfere with the production of interferon by virus.

Ulster Chemists' Diamond Jubilee Celebrations

A CONFERENCE AND A DINNER

THE first week-end Conference of the Ulster Chemists' Association, held at Portrush, October 6-8, went with a swing. A happy, friendly spirit prevailed from start to finish and the weather was glorious.

Friday evening saw the members gathering for dinner, followed by a social get-together at which the president (Mr. W. J. Moffett) welcomed them, and at which members brought greetings from various parts of the territory to the Conference. Many members contributed to a programme of entertainment. On Saturday afternoon the entire party set off on a coach tour of the coast, stopping for tea at Cushendun and a visit to the famous Cushendun caves. At dinner later in the hotel, a goodly number of U.C.A. members from local towns and their guests joined the conference party, and a lively, pleasurable dance followed. On Sunday afternoon, while the main meeting of the conference was being held, a coach tour was arranged for the ladies, with a break for tea at Castlerock, and the company joined together again for the farewell dinner at 7 p.m.

A Highly Successful Venture

On Saturday morning a discussion took place on many aspects of the trade, including staff questions, shop hours, price-cutting, dispensing, labelling and presentation of bottles, inspection of pharmacies, local difficulties, etc. At the main Sunday afternoon meeting two speakers were welcomed by the president: Messrs. N. C. Cooper, M.Sc., M.P.S. (chairman of the Education Committee, Pharmaceutical Society of Northern Ireland), whose topic was "The New Education Policy," and A. N. Lovesy, F.C.A., on "Health Services—Claim for Increased Remuneration."

Outlining changes in the education policy at present under consideration by the Council of the Pharmaceutical Society of Northern Ireland, but not

At right: The Association's president (Mr. W. J. Moffett) and Mrs. Moffett welcome the Lord Mayor and Lady Mayoress of Belfast (Alderman Martin K. Wallace, J.P., and Mrs. Wallace) to the dinner at Dunmurry.



Past-secretary Mr. J. McClenahan and present secretary Miss A. E. Strachan photographed at the reception.

yet finalised, MR. COOPER traced the history of pharmacy and pointed out the avalanche of changes during the past twenty years when hundreds of products from research bodies had transformed successive editions of the British Pharmacopoeia and the British Pharmaceutical Codex and resulted in numerous addenda. "Change in pharmacy," said Mr. Cooper, "must lead to change in pharmaceutical standards. The old regime is passing and in its place a higher standard of education is now required. The aim of the Society is to ensure that the students coming along are adequately equipped for modern practice." He then outlined the

possible trend in pharmaceutical education, which may result in all pharmacists of the future being of Bachelor of Science degree level. He foresaw a wonderful new era for them, when all biological testing might be done by the pharmacists, and they would concentrate solely on the professional side in the pharmacy.

Questions followed. MR. WILLIAM DONALDSON, Londonderry, said that, in the old days, the pharmaceutical apprentice had had an opportunity of finding out before undertaking study whether or not he would like pharmacy. Was there any way in which the potential pharmacist could find this out today? MR. COOPER replied that, during studies today, students received a great deal of information from their career masters and no doubt it could be arranged for a pharmacist to give a few weeks' practical experience in the early stages.

MISS C. B. ABERNETHY asked if Mr. Cooper thought the change of standards might lead to further divisions of the professions. Would the holders of the new degrees tend to separate from the old? MR. COOPER replied to the effect that the Statement of Professional Conduct would take care of that.

MR. J. A. BROWN wished to know what steps would be taken to close the gap that must exist between the older and new pharmacists, and MR. COOPER replied that the Society would endeavour to provide, in their new plan, for a post-graduate course for the older pharmacists when facilities became available at the College of Technology.

To other questions, Mr. Cooper felt



Members with wives, families and friends at Portrush for the first-ever week-end conference of the Association.



that strict observance of the Statement upon Matters of Professional Conduct would be to the advantage of all, and referred to the paper given by MR. F. W. ADAMS at the Portsmouth Conference meeting: "Report of the Committee on General Practice of Pharmacy." He thought that paper gave much food for thought, and advised those present to study it carefully.

Conveying the thanks of the meeting to MR. COOPER, THE PRESIDENT congratulated him and the Council of the Pharmaceutical Society on the tremendous work they had put into the matter and said members were deeply indebted to the Council for keeping them abreast of the times.

Following an interval for tea, MR. A. N. LOVESY outlined the history of the work of the Local Pharmaceutical Committee from its formation, and described the thorough way in which an investigation was carried out so that a claim might be based on fact. He stated that, following claims being lodged by England and Scotland to their respective Departments, the Local Pharmaceutical Committee had given notice of claim for a dispensing fee of 2s. 2½d. An assurance had been received from the Ministry that any agreement reached by Scottish chemists would be applied to Northern Ireland Chemists.

The interest shown in the address was evidenced by the number of questions that followed, all of which were competently dealt with by Mr. Lovesy, to whom THE PRESIDENT expressed thanks. Mr. Lovesy's address, he said, had revealed to those present how much the Local Pharmaceutical Committee had done and was continually doing on behalf of Health Service contractors. He thanked those who had come to support the Conference, which had proved so very much worthwhile.

Diamond Jubilee Dinner

The Association celebrated its Diamond Jubilee with a dinner-dance held at Dunmurry, Belfast, on October 10. MR. W. J. MOFFETT (president), welcomed the guests, among whom were the Lord Mayor of Belfast (Alderman Martin K. Wallace, J.P.), the Minister of Health and Local Government (Mr. W. J. Morgan, J.P., M.P.), Messrs. A. Howells and J. Wright (chairman and acting secretary of the National Pharmaceutical Union); Mr. James McCleahan (a member of the National Pharmaceutical Union staff and past-secretary of the Ulster Chemists' Association); Messrs. T. W. Buchanan and M. M. McNeill (chairman and secretary, Pharmaceutical Standing Committee for Scotland); Messrs. A. C. Hennessy and B. R. Smith (president and secretary of the Irish Drug Association); Messrs. A. Templeton and William Gorman (president and secretary of the Pharmaceutical Society of Northern Ireland); Mr. J. N. Patterson (pharmacy inspector, Ministry of Home Affairs, Northern Ireland); Mr. T. G. Rutledge (chairman, Northern Ireland Local Pharmaceutical Committee); Mr. R. J. Davidson (chairman of the Associates' Section, Ulster Chemists' Association); Messrs. O. H. Waller and W. M. Hutson (editor and artist, THE CHEMIST AND DRUGGIST); Mr. A. N.

Lovesy, F.C.A. (accountant); and Mr. W. B. Rankin, LL.B. (solicitor).

Proposing the toast "The City of Belfast," MR. W. J. RANKIN (trustee and immediate past honorary treasurer of the Association) mentioned that it was not only the Association's Diamond Jubilee but his own, for he had entered pharmacy in 1901. He referred to the City's natural setting and gave a brief outline of its history, and spoke of the debt the present generation owed to the foresight of the merchants sixty years ago and former corporations amongst whom members of the drug trade were numbered who had built up a worthy inheritance. They had found worthy successors in the present city fathers, headed by their distinguished Lord Mayor, whose presence at the function gave so much pleasure that evening.

The Rt. Honourable the Lord Mayor of Belfast (ALDERMAN MARTIN K. WALLACE, J.P.), responding, congratulated Mr. W. J. Moffett on being president of so excellent an Association, which had, he said, made its mark down the years. He touched on the work of his Corporation, laying stress on the high amount set aside annually for education. They took the progressive view that their young people must be equipped to face the modern world and the great responsibilities they were so soon to assume. He concluded by wishing the Ulster Chemists' Association "God Speed."

Praise for Founders' Courage

The toast "The Ulster Chemists' Association" was proposed by MR. A. HOWELLS (chairman, National Pharmaceutical Union), who conveyed greetings and congratulations from the Chemists Defence Association and National Pharmaceutical Union. He mentioned that the Chemists' Defence Association had celebrated its Diamond Jubilee two years ago, but that the National Pharmaceutical Union was twenty years younger. He spoke of the courage of those who had started the U.C.A. in 1901, and had carried on through the years, and of the debt owed to them. He congratulated the executive committee on its progress and commended the idea of having employers and employees together in the Association (through the Associates' Section), thereby ensuring that there were younger members to follow on. He wished the Association continued success.

Responding, MR. W. J. MOFFETT, on behalf of the executive committee, extended a sincere welcome to the Association's guests on this its sixtieth anniversary celebration. He asked Mr. Howells to convey to his council the executive committee's appreciation of their unfailing help and co-operation over the years, and sent best wishes to the Union's secretary (Mr. Noble) for his speedy recovery to health. Mr. Moffett spoke of the strides the Association had taken over the years. "Fraternisation," he said, "was not known sixty years ago, but prejudice and suspicion existed all around." Members today owed a tremendous deal to the work of illustrious men, whose names are displayed on the past-presidents' board in the U.C.A. offices. He also paid

tribute to the Rankin family, "whose name was synonymous with the U.C.A.", and concluded by thanking every one present for coming along to celebrate the Diamond Jubilee.

MR. W. H. BOYD proposed the toast "The Guests," mentioning each in turn, and expressed appreciation of the courtesy extended by the Ministry to members of his profession when meeting for negotiation.

THE RT. HON. W. J. MORGAN, J.P., M.P., responding, thanked Mr. Boyd for the jovial way in which he had toasted the guests. Sixty years was a long time for an Association to thrive, and the range of its activities had increased with the times. The responsibilities of the chemists must also have increased, as the range of substances with which they must familiarise themselves widened. He paid tribute to the chemists who had gone to new housing estates and pioneered there.

MR. T. W. BUCHANAN (chairman of the Pharmaceutical Standing Committee (Scotland)), conveyed the greetings and best wishes of the Committee for the continued friendship and co-operation between the chemists in Northern Ireland and Scotland. For the past ten years members of the Northern Ireland Local Pharmaceutical Committee had been welcomed to join the Pharmaceutical Standing Committee in discussion at the more critical stages in negotiations, and he took the opportunity of expressing appreciation of the great help they had had from Mr. A. N. Lovesy, for whose clear thinking and wise counsel they had been grateful. Thanking Mr. Boyd for the happy way in which he proposed the toast, he wished the Association every success over the next sixty years.

Greetings from Dublin

MR. A. C. HENNESSY (chairman, Irish Drug Association) thanked the president and executive committee for inviting him and Mr. B. R. Smith (secretary) on that great occasion. "Between North and South," he said, "there is great affinity, and there are no barriers in pharmacy." He heartily endorsed all the sentiments expressed, and on behalf of the Irish Drug Association wished the Ulster Chemists' Association many, many years of success and further greatness in the future.

At the October meeting of the executive committee held recently in Belfast, the following pharmacists were co-opted to membership of the Committee:—MR. W. E. Cooper, Ph.C., 13 Saracan Crescent, Belfast, 14; and MR. T. I. O'Rourke, Ph.C., 14 Duncoole Park, Belfast, 14.

N.H.S. STATISTICS

HALIFAX.—513,327 prescriptions issued in 1960-61 (a decrease of forty-five on the previous year), at an average cost of 7s.

IN OLDHAM during March, 55,896 prescriptions were dispensed at a total cost of £20,553. Average cost per prescription was 42·06d.

IN NORTHERN IRELAND during April, 518,035 prescriptions (366,541 forms) were dispensed at a total cost of £187,755. Average cost per prescription was 111·19d.



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It will be wanted in a big way this Christmas —
the handsome VACCO de luxe Vacuum Flask.

And no wonder! Pleasing shape, pleasing
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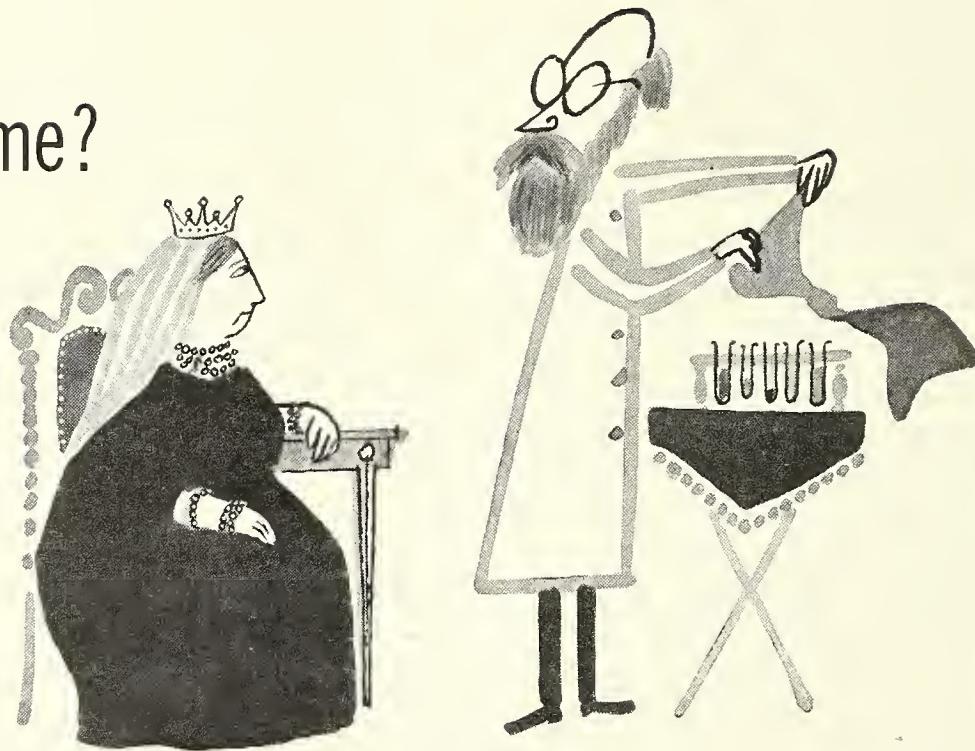
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What is a co-enzyme?



1897 was the year of the diamond jubilee of Queen Victoria; it was also the year in which Eijkmann observed a pathological relationship between avian polyneuritis and human beriberi and it was the year in which Bertrand introduced into chemistry the term: co-enzyme. The last two of these apparently unrelated events have since led towards a common interest in the biochemistry of some of the vitamins. These were quite unknown in 1897 when Bertrand employed the term to include inorganic ions like Ca^{++} and Mg^{++} , which today would probably be called "activators".

Today the term co-enzymes is reserved for non-protein, organic components of enzyme systems. In this sense the active form of vitamin B_1 is an ester of pyrophosphoric acid: co-carboxylase, which, together with Mg is necessary for the activity of all enzymes catalysing the decarboxylation of α -keto acids such as pyruvic. Nicotinamide is a component of two co-enzymes: di- and tri-pyridine nucleotides and pantothenic acid is a component of co-enzyme A.

Many of the pathological conditions for which massive doses of the B complex are used ther-

apeutically are those in which disturbance of these enzyme systems has been caused by toxins or drugs, such as, for example, alcoholic psychosis or post-influenza depression.

What are co-enzymes?

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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, OCTOBER 18: Buyers showed little interest in any of the markets during the week. British manufacturers of CITRIC ACID reduced their schedules by about £20 per ton.

The reduction follows one made three months ago; on that occasion the reduction was in the order of £14 per ton. It is understood that Continental material, particularly from Belgium where there are surplus stocks, has weakened the market.

CRUDE DRUGS remained in the doldrums. The high prices quoted for American LOBELIA HERB were said to be unattractive to buyers, meanwhile it is believed that the Dutch crop has all been sold. Brazilian MENTHOL was lower by sixpence per lb. in bond. Among AROMATIC SEEDS, Indian CELERY was down by 5s. per cwt. for shipment at 190s., c.i.f. Offers of Tinnevelly SENNA were unchanged on the week; shipments of leaves and pods from the port of Tuticorin during September were as follows:—

	U.K.	U.S.	EUROPE
SENNA LEAVES	Tons	Tons	Tons
LEAVES	25	3	142
PODS	8	½	157½

PEPPERS were easier, reflecting a decline at the primary source attributed to large arrivals. Jamaican GINGER was marked up by 5s. a cwt. on the spot bringing it in line with African material. Nigerian CHILLIES were 10s. lower at 200s. cwt.

Prices of CITRONELLA and LEMON-GRASS continued to climb but other ESSENTIAL OILS, where changed, were lower. They included: BOIS DE ROSE (down threepence per lb.); Brazilian PEPPERMINT (down three-halfpence); and SANDALWOOD (down 2s. 6d.).

A new plant for the manufacture of SORBITOL is reported to be now in production. The unit has an annual capacity of 40,000 tons of 70 per cent. syrup, which is said to be well above the present market in the United Kingdom and is expected to meet any increase in demand for the syrup or powder over the next few years.

A large supplier of acrylic sheet has announced that further extensions over the next year should result in a total capacity in excess of 20,000 tons. In anticipation of reduced costs arising from increased standardisation and productivity, the price is reduced by an average of 2 per cent.

Pharmaceutical Chemicals

ACETANILIDE.—Crystals. One-cwt. lots, 2s. 10d. per lb.; 5-cwt., 2s. 9d.

ACETIC ACID.—B.P. glacial, minimum terms, £97 per ton naked; technical 80 per cent., £77; pure, 80 per cent., £83. Carboys and demijohns are £21 per ton extra.

ALOIN.—Micro-crystalline, 14-lb. lots, 31s. 6d. per lb.

ALUMINIUM ACETATE.—B.P.C. in 1-cwt. sacks, 1s. 9d. per lb.

ANTIMONY SALTS.—CHLORIDE SOL., B.P.C., 1934, carboys, 2s. 6½d. lb.; POTASSIUM TARTRATE, 7s. 6d. per lb.; SODIUM TARTRATE, 12s. 6d.

BORAX.—B.P. grade, 1 ton and upwards: Granular, £56 10s.; crystals, £60; powder,

£61; extra fine powder, £62 per ton, all in hessian sacks. Commercial from £46 10s. to £52 per ton, as to type and packing. Dehydrated borax is £60 per ton in paper-lined hessian bags or £59 in paper bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 3s.

BORIC ACID.—B.P. grade in 1 ton and upwards (per ton): Granular, £91 10s.; crystals, £99 10s.; powder, £97; extra-fine powder, £99 per ton in lined hessian bags, carriage paid in Great Britain. Less £1 per ton if supplied in paper bags. Technical from £77 10s. to £87 per ton according to type and packing.

CAFFEINE.—ANHYDROUS, less than 50-kilo lots, 33s. 6d. per kilo; MONOHYDRATE, B.P., 34s.; CITRATE, 26s. kilo.

CALAMINE.—Five-cwt. lots, 1s. 10d. per lb.; 1-ton, 1s. 8½d.

CHALK.—Prepared powder B.P., £22 per ton for minimum 1-ton ex works.

CHARCOAL.—Medicinal activated, B.P.C. in 1-cwt. lots, £22 10s. per cwt.

CHINIOPHON.—B.P. 1948, 67s. per kilo; 50-kilo lots, 62s. 6d. per kilo. The sodium derivative (B.P. 1953), 99s. 4d. and 92s. 9d. for the same quantities.

CITRIC ACID.—Lower. Domestic powder (in kegs) per cwt., 1-4-cwt. lots, 165s. per cwt. 5-19-cwt., 164s.; 1-ton, 163s. In paper bags, prices are 158s., 157s. and 156s., respectively.

COUMARIN.—In under 28-lb. lots, 19s. per lb., under 1-cwt., 18s. 3d. per lb.

CREAM OF TARTAR.—Home trade:—One-ton lots, 241s. per cwt.; 10-cwt., 242s.; 5-9-cwt., 243s.; 2-4 cwt., 244s.; 1-cwt., 245s. (If supplied in bags deduct 5s.)

CREOSOTE.—B.P. quality, ex beechwood, from 6s. 9d. to 7s. 6d. per lb.

CRESOL.—B.P. quality, 7s. 9d. per gall. in 5-gall. lots.

DICOPHANE (DDT).—One-cwt., 2s. 11½d. per lb.; 1-ton, 2s. 8½d. per lb.

DIGOXIN.—100-gm. lots, 78s. per gm.

DIHYDROXYACETONE.—For contracts of 1,000 kilos, £4 per kilo.

EMETINE.—One-kilo lots. HYDROCHLORIDE, 8,642s. per kilo.

EPHEDRINE.—ALKALOID nominally 6s. 6d. per oz., SULPHATE, 4s. and HYDROCHLORIDE, 3s. 3d. per oz.

ERGOMETRINE.—MALEATE, B.P., 270s. per gm.

ETHER.—Per lb. in winchesters: TECHNICAL, B.S.S., and SOLVENT, 5-cwt., 2s. 7d.; 4s. 1d. per litre). In drums the price is 2s. 2d. per lb. ANESTHETIC, B.P., 5-cwt., 3s. 6d.; 10-cwt., 3s.

FORMALDEHYDE.—B.P. solution, 5 drum lots, 755s. per ton in free drums, delivered.

GALLIC ACID.—B.P., 10s. 7d. per lb. for 1-cwt. lots. Technical grade, 9s. 9d.

GLYCEROPHOSPHATES.—Per lb. in 1-cwt. lots:—ACID, B.P.C., 20 per cent., 4s. 7d.; CALCIUM, soluble, B.P.C., 12s.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MAGNESIUM, soluble, B.P.C., 14s. 3d.; MANANESE, B.P.C., 27s.; POTASSIUM, 50 per cent., B.P.C., 3s. 9d. and 75 per cent., B.P.C., 5s. 6d.; SODIUM, 50 per cent. 2s. 7d.; 75 per cent., 4s. 6d.; 100 per cent., 8s.

GLYCYRRHETINIC ACID.—Per oz., 60s.

GUAIACOLS.—LIQUID B.P.C., 16s. per

lb., for 1-cwt. lots; CRYSTALS, 15s. 9d.; CARBONATE, 18s.

HOMATROPINE.—16-oz. lots (per oz.): ALKALOID, 30s. 6d.; HYDROBROMIDE, 24s. 6d.; HYDROCHLORIDE, 28s. 6d.; METHYLBROMIDE, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

HYDROCYANIC ACID.—Dilute B.P.C., from 3s. 2d. to 4s. per litre, as to quantity; Scheels from 3s. 10d. to 4s. 9d.

HYDROGEN PEROXIDE.—27·5 per cent. (by weight), £115 per ton; 35 per cent. £138 in returnable carboys.

KAOLIN.—LIGHT, 60s. per cwt.; 1-ton, 57s. per cwt.

LACTATES.—CALCIUM, B.P., 2s. 3d. per lb. in 5-cwt. lots and 2s. 4d. in 1-cwt. lots; CALCIUM SODIUM, 4s. 9d. and 4s. 10d. per lb.

LACTIC ACID.—B.P. 4s. 5d. per lb. for 12-winchester lots and 4s. for 5-cwt. lots. Edible, 80 per cent. acid, 2s. 4d. per lb. for under 1-ton lots: 12 winchesters, 2s. 8d. per lb.

MAGNESIUM CARBONATE.—Per cwt. LIGHT, 129s. or 121s. for 1-ton lots; HEAVY, 175s. for 1-cwt. lots; from 130s. to 135s. for 1-ton lots.

MANDELIC ACID.—One-cwt. lots, 12s. 6d. per lb. CALCIUM SALT also 12s. 6d. SODIUM MANDELATE, 13s. and AMMONIUM MANDELATE 50 per cent. solution, 7s. 6d.

METHOIN.—B.P., 120s. per lb.

METHYL SALICYLATE.—Five-ton lots, 3s. 2d. per lb.; 1-ton, 3s. 2½d.; 10-cwt., 3s. 3d.; 5-cwt., 3s. 4d.; 1-cwt., 3s. 5d.

OESTRADIOL.—MONOBENZOATE is 16s. per gm.

PARACETAMOL.—Minimum 10-cwt., 10s. 9d. per lb.

PARAFFINS.—Prices to wholesale distributors are:—Liquid: HEAVY, B.P., £107 per ton; LIGHT, B.P., £88 17s. 6d.; Technical White oils, £80 7s. 6d. for the LIGHT and £93 17s. 6d. for the MEDIUM. All in 40-50 gall. returnable loaned drums, delivered U.K. Soft: Best grades WHITE, medium consistency, £116 15s. per ton and soft consistency, £113 7s. 6d. Yellow, £94 10s. Other grades (all B.P.) at £95, £100 10s., £106 per ton for white and at £74 17s. 6d. for yellow. All in non-returnable drums delivered.

PARALDEHYDE.—B.P. in 12-winchester lots, 2s. 10d. per lb. (6s. 3d. kilo); 10-gall. carboys, 2s. 4d.

PHENAZONE.—Imported, 9s. 6d. per lb.

PHENOL.—Ice crystals in drums is 1s. 4½d. per lb. (under 1-ton lots, 1s. 7½d.). Detached crystals, 2d. per lb. above and LIQUID, B.P., ¾d. per lb. below the foregoing prices.

PHENOLPHTHALEIN.—One-cwt. 9s. per lb.

PHOLCODINE.—8-oz. lots, 95s. 9d. per oz.

PHYSOSTIGMINE.—Per gm.: ALKALOID, 14s. 8d. (5-gm. lots); SALICYLATE, 10s. and SULPHATE, 12s. 7d. (25-gm. lots); NITRATE, 1s. 1½d. (500-gm.).

PIPERAZINE.—(50-kilo lots), ADIPATE, 22s. per kilo; CITRATE, 20s. 6d.; HEXAHYDRATE, 17s.; PHOSPHATE, 23s.; TARTRATE, 22s. 6d.

PROGESTERONE.—Price is 1s. 6d. per gm.

PYROGALIC ACID.—One-cwt., pure crystals, 24s. 6d. per lb.; resublimed 26s. 6d.

SALICYLAMIDE.—One-cwt., 6s. 3d. per lb., 5-cwt., 5s. 11d.

SALICYLIC ACID.—One-cwt., 3s. 4½d. per lb.; 5-cwt., 3s. 2½d. per lb.

STREPTOMYCIN.—DIHYDRO or BASE, 10½d. per gm.

Crude Drugs

ACONITE. — Spot: Spanish *napellus*, 2s. 6d. per lb.

AGAR. — Kobé No. 1, 14s. 6d. per lb. in bond; shipment, 14s. 3d., c.i.f.

ALOES. — Cape primroses, spot, 175s. per cwt.; shipment, 155s. to 165s., c.i.f. Curaçao, spot, 450s.; shipment, 425s., c.i.f.

BALSAMS. — Per lb.: CANADA: Spot, 20s. COPAIBA: Spot scarce and shipment not offering. PERU: Spot, 8s. 9d. in bond. TOLU (genuine as imported), 35s.; B.P., from 12s. to 17s. 6d. as to analysis.

BELLADONNA. — HERB, 1s. 9d. per lb., in bond. LEAVES, 1s. 8d.; shipment, new crop 1s. 10½d., nominal. ROOT, good testing new-crop nominally, 1s. 9d. landed.

BENZOIN. — Sumatra block, spot £20 to £28 as to quality.

BUCHU. — Spot new crop, 4s. 3d. per lb.; shipment, 4s., c.i.f.

CALAMUS. — Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

CAMPHOR. — B.P. powder, 3s. 10½d. per lb. in bond.

CAPSICUMS. — Chinese, on stalk, 150s., per cwt., duty paid; Ethiopian, 150s.

CARDAMOMS. — Aleppy greens, 13s. per lb., spot; shipment, 10s. 6d., c.i.f.; SEEDS, 19s. 6d. spot and 16s. 9d., c.i.f.

CASSIA. — *Fistula*, 105s. per cwt.: *ligneosa* (whole), 448s. spot; shipment, 335s., c.i.f.

CHAMOMILE. — Belgian, 6s. 6d. to 7s. 6d. per lb. as to quality; Hungarian type, 6s. 6d.

CHERRY BARK. — Thin natural, 1s. 9d. per lb.; Shipment, 1s. 6½d., c.i.f.

CHILLIES. — Nigerian, 200s. per cwt. Mombasa, 330s.

CLOVES. — Zanzibar spot, 2s. 9½d. per lb.; shipment, 2s. 7½d., c.i.f.

COCHINEAL. — Black-brilliant, 10s. 6d. per lb., spot; Peruvian silver-grey, 4s. 6d.

COCILLANA. — Bark, 2s. per lb., spot; 1s. 8d., c.i.f.

COLOCYNTH PULP. — Spot, 2s. to 2s. 6d. per lb. as to quality.

DIGITALIS. — *Purpurea* for shipment, old crop, 11d.; new crop, 2s. 4d. per lb., c.i.f.

ERGOT. — Portuguese, 8s. 9d. per lb., c.i.f., for prompt shipment; spot, 9s.

FRANGULA. — Spot, 87s. 6d. per cwt.

GENTIAN. — Spot, French, 150s. per cwt.

GINGER. — (Per cwt.) African, spot, 245s.; shipment, 220s. nominal; Jamaican No. 3, spot, 245s. Cochin, shipment, not offering; spot, 152s. 6d.

GUM ACACIA. — Kordofan cleaned sorts, 142s. 6d. per cwt., spot; October–November shipment, 128s., c.i.f.

HENNA. — Indian, spot, 95s. per cwt.; shipment, nominal.

IPECACUANHA. — Shipment: Costa Rican, 69s. 6d. per lb., c.i.f.; Matto Grosso, 51s., nominal, c.i.f.; Colombia and Nicaragua not offering. Spot: Matto Grosso, 54s.; Colombian, 54s.

JUNIPER BERRIES. — Italian, 100s. per cwt.; German, 120s.

KARAYA. — No. 1 gum, spot 300s. per cwt.; No. 2, 225s.

KOLA NUTS. — African, 6d. spot and 4½d., c.i.f.

LEMON PEEL. — Spot, 2s. 9d. per lb.

LINSEED. — Whole, 70s. to 75s. per cwt.; crushed, 105s.

LOBELIA HERB. — American spot, 8s. per lb.; shipment nominally 7s., c.i.f., and DUTCH, 4s. 3d., c.i.f., nominal.

MENTHOL. — Chinese: spot, 60s. per lb., duty paid; shipment, afloat, 53s. 6d.; shipment, 53s., c.i.f. Brazilian, 47s. 6d., in bond; shipment, 47s., c.i.f. (October–November). Formosan, 49s., in bond;

prompt shipment, 47s. 6d. per lb., c.i.f.

MERCURY. — About £62 per flask of 76-lb.

NUTMEGS. — West Indian 80's, 9s. 6d. per lb., spot; sound unassorted, 7s. 3d.; defectives, 6s. 3d.

NUX VOMICA. — Shipment (per cwt.), Cochin, 65s., c.i.f.

ORANGE PEEL. — Spot: Sweet ribbon 1s. 10d. per lb.; bitter quarters: West Indian, 11d.; Spanish, 1s.; bitter ribbon, 1s. 3d.

ORRIS ROOT. — Florentine, 335s. per cwt.

PEPPER. — White Sarawak, spot, 3s. 6d. per lb.; October shipment, 3s. 4d., c.i.f.

Black Sarawak, spot, 3s. 4d.; shipment, 2s. 10½d., c.i.f. Black Malabar, 400s. per cwt. spot and new crop, December shipment, 335s., c.i.f.

PEPPERMINT. — Dutch whole leaves, 3s. per lb., c.i.f.

PIMENTO. — Spot, 588s., cwt.; shipment, 540s., f.o.b.

PODOPHYLLUM. — *Emodi* 190s. per cwt.; *Peltatum*, 435s. per cwt.

PYRETHRUM. — Extract, minimum 25 per cent. w/w pyrethrins, 74s. 6d. per lb. for small lots.

QUILLIAJA. — Old crop 220s. per cwt. on spot. New crop quotations from origin, January–April 1962 shipment, 175s. cwt., c.i.f.

RHUBARB. — Chinese small rounds from 5s. 6d. to 6s. 9d. per lb. on the spot.

SAFFRON. — Mancha selecta, 140s. per lb., spot.

SARSAPARILLA. — Jamaican native red spot, 2s. 6d. per lb.; shipment, 2s. 1d., c.i.f.

SEEDS. — (Per cwt.). ANISE.—Egyptian, 205s., duty paid. CARAWAY.—Dutch, 155s., duty paid. CELERY.—Indian, 210s., spot; shipment easier at 190s., c.i.f.

CORIANDER.—Moroccan, 130s., duty paid; Indian bold, 105s., spot; shipment, Moroccan, 116s., c.i.f. CUMIN.—Indian, 175s., spot; Iranian, 160s., duty paid. DILL.—Indian, 100s., spot; shipment, 86s., c.i.f.

FENNEL.—Indian, 105s., spot; shipment, 90s., c.i.f. FENUGREEK.—Moroccan, 95s. to 97s. 6d., duty paid; shipment, 79s., c.i.f. MUSTARD.—English, 70s. to 80s., according to quality.

SENEGA. — Spot 17s. 6d. per lb.; shipment, 16s., c.i.f.

SLIPPERY ELM. — Bark, 3s. 6d. per lb. landed value.

SQUILL. — White 75s. to 85s. per cwt. spot, as to quality.

STRAMONIUM. — Indian LEAVES 60s. per cwt. spot. Dutch 0·5 per cent. alkaloid, 93s., c.i.f.

STYRAX. — Spot, 25s. 9d. per lb., shipment, 24s., c.i.f.

TONQUIN BEANS. — Para spot, 6s. per lb. Shipment, 5s. 3d. Angostura, 10s. 6d.

TRAGACANTH. — No. 1 ribbon, £140 to £145 per cwt. No. 2, £132 10s. to £137 10s.

TURMERIC. — Madras finger, spot sold at 117s. 6d. per cwt.; shipment, 107s., c.i.f., quoted.

VALERIAN ROOT. — Spot: Belgian, whole for prompt shipment, 145s. per cwt., c.i.f. Indian, 180s., spot.

VANILLIN. — Rates (per lb.) are now:— 5-cwt. lots, 22s. 3d.; 1-cwt., 22s. 6d.; 56-lb., 22s. 9d.; small quantities, 23s.

WAXES. — (Per cwt.). BEES'—Dar-es-Salaam, spot, 425s.; shipment, 390s., c.i.f. Abyssinian, 375s. in bond; shipment, 370s., c.i.f. Sudanese, spot, 410s., duty paid; shipment, 370s., c.i.f. CANDELILLA, spot, 465s.; CARNAUBA, fatty grey, spot, 440s.; shipment, 407s. 6d., c.i.f.; prime yellow, spot, 690s. quoted; shipment, 652s. 6d., c.i.f.

WITCH HAZEL LEAVES. — New crop, 2s. 11d. per lb., spot.

Essential and Expressed Oils

ALMOND. — Moroccan, 6s. 6d. per lb., duty paid.

ANISE. — Chinese, 7s. 10½d. per lb., spot; shipment, 7s. 10d., c.i.f.

BERGAMOT. — Spot, from 72s. 6d. per lb.

BOIS DE ROSE. — Brazilian, 13s. 9d. per lb. on the spot and 13s. 6d., c.i.f.

CAJUPUT. — Spot from 10s. per lb.

CALAMUS. — Spot, 56s. 6d. per lb.

CARDAMOM. — From 375s. per lb. for English-distilled and 250s. for imported.

CANANGA. — Spot, from 35s. per lb.

CASTOR. — Home produced B.P. oil, spot, £155 per ton naked ex mill (2-ton lots).

CELERY SEED. — Dutch oil, 90s. per lb. and Chinese, 65s.

CHAMOMILE. — Smalls 640s. per lb.

CITRONELLA. — Ceylon, spot, 6s. 3d.: shipment, 6s. 2½d. per lb., c.i.f. Formosan, spot, 8s. 6d., in bond; shipment, 8s. 3d., c.i.f.

CLOVE. — Madagascar leaf, spot, 7s. 9d. per lb., duty paid; shipment, 6s. 10d., c.i.f.

RECTIFIED. 87–88 per cent., 12s. Distilled bud-oil, English, B.P., 27s. for 1-cwt. lots.

CORIANDER. — B.P. oil, 52s. 6d. per lb., spot.

GERANIUM. — Bourbon, 85s. to 95s. per lb. on the spot.

GRAPEFRUIT. — Florida, 18s. per lb.

JUNIPER. — B.P.C. 1949 oil is from 10s. per lb. on the spot. English-distilled, 150s. JUNIPER WOOD, from 5s.

LEMON. — Californian cold-pressed from 26s. per lb., spot; Sicilian cold-pressed, about 25s.

LEMONGRASS. — Spot nominal. October shipment, 18s. 9d. per lb., c.i.f.

NUTMEG. — Imported B.P. oil is from 46s. to 90s. per lb. as to source. English distilled, 140s.

OLIVE. — Spot, 19s. to 19s. 6d. per gall. in drums ex wharf; shipment, £190–£205 per 1,000 kilos, f.o.b. Spanish port.

ORANGE. — Spot quotations of sweet oil include Floridian at 2s. 9d. per lb.; West Indian, 3s. 6d.

PALMAROSA. — Spot, 37s. 6d. per lb.; shipment, 36s., c.i.f.

PATCHOULI. — Penang is 35s., duty paid and 29s., c.i.f., per lb.

PEPPERMINT. — *Arvensis*: Chinese spot, 30s.; shipment, 26s. 6d., c.i.f. Brazilian spot, 16s. 9d.; shipment, 16s. 6d., c.i.f. *Piperita*: Italian, 48s. per lb., spot nominal; shipment new crop, upwards of 60s. for best oil asked. American from 28s. to 30s. per lb. as to make.

PIMENTO. — English-distilled berry from 150s. per lb.; imported, 32s. 6d. Rectified leaf, 16s. per lb.

PINE. — *Pumilionis* 32s. per lb.; *sylvestris*, 9s., *abietis*, 15s.

ROSEMARY. — Spanish is 9s. per lb. on the spot for best quality.

SANDALWOOD. — East Indian, spot, 170s. to 172s. 6d. per lb.; forward, 167s. 6d., c.i.f.

SASSAFRAS. — Brazilian is from 3s. 9d. per lb., duty paid.

SPEARMINT. — American oil on the spot 30s. per lb.

UNITED STATES REPORT

NEW YORK, OCTOBER 17: Although BENZOIC ACID has been holding steady at 20 cents a lb. in fibre drums, a leading producer was eventually offering the material in bags at a half-cent cheaper. HEXAMETHYLENE DIAMINE anhydrous was reduced by 20 cents to a new rate of \$1·50 per lb. for duty-paid imported material. The tight supply situation in LEMON OIL continues.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED
From the "Official Journal (Patents),"
October 11

- Piperazine-carboxylic acid esters and process of preparing them. Farbwerke Hoechst, A.G. 883,336.
- Purification anti-haemophilic globulin. Crookes Laboratories, Ltd. 883,549.
- Steroids and the manufacture thereof. Upjohn Co. 883,212-479.
- Ointment basis and ointments. Abbott Laboratories, Ltd. 883,254.
- Guaniidine compounds. CIBA, Ltd. 883,282-83.
- Vitamin compositions comprising cobalamine and ascorbic acid. Upjohn Co. 883,259.
- Polypeptides. CIBA, Ltd. 883,235.
- Process for the production of suppositories. Dehydag Deutsche Hydrierwerke, G.m.b.H. 883,240.
- Anthelmintic compositions containing piperazine or a derivative thereof. Boots Pure Drug Co., Ltd. 883,199.
- Benzoxazine derivatives, their preparation and pharmaceutical compositions containing them. Karl Thomas, G.m.b.H. 883,324.
- Hydrazine derivatives and a process for the manufacture thereof. F. Hoffmann-La Roche & Co., A.G. 883,379.
- Manufacture of sodium carbonate. Roumania, Minister of Petroleum & Chemical Industry. 883,202.
- Process for the cyclic production of hydrogen peroxide. Edogawa Kagaku Kogyo Kabushiki Kaisha. 883,226.
- Process for the manufacture of nitrogen-containing organic phosphorus compounds. Rottweiler Kunstseidefabrik, A.G. 883,299.
- Analogues of vitamin B₁₂ and process for their biosynthesis. Soc. Farmaceutici Italia. 883,230.
- Process for the manufacture of sorbic acid. Farbwerke Hoechst, A.G. 883,492.
- Preparation of chloro-substituted gamma-phenoxy fatty acids. Imperial Chemical Industries of Australia and New Zealand. 883,255.
- Urazole derivatives and their preparation. Abbott Laboratories. 883,219.
- Morpholine derivatives. Ravensburg, G.m.b.H. 883,220.
- Bacteriological testing. Evans Medical, Ltd. 883,389.
- Steroids and the synthesis thereof. Olin Mathieson Chemical Corporation. 883,317.
- 6β-nitrosteroids and methods for their production. Lovens Kemiske Fabrik Ved. A. Kongsted. 883,495.
- Halopregnatrienes and process for preparation. American Cyanamid Co. 883,576.
- Hormonal agents. G. D. Searle & Co. 883,310.
- Microbiological process for the preparation of steroids and ketones. Wisconsin Alumni Research Foundation. 883,500.
- Herbical compositions. Upjohn Co. 883,234.
- Thiophosphoric acid esters. Farbenfabriken Bayer, A.G. 883,566.
- Aerosols. Sorex (London), Ltd. 883,578.
- British patent specifications are obtainable (price 3s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

- From the "Trade Marks Journal," September 27
- For all goods but not including medicated confectionery or any goods of the same description (5)
- VITANIT, 818,232, by Vita Zahnfabrik H. Rauter, K.G. Essen, Germany.
- For pharmaceutical preparations and substances for human and veterinary use (5)
- DAYSED, 815,733, by Winthrop Group, Ltd., Surbiton, Surrey.
- For anaesthetic lozenges (5)
- THROCAINE, 817,254, by Lewis & Burrows (Manufacturing Chemists), Ltd., London, S.W.2.
- For laxative preparations (5)
- CONTAX, 819,277, by Continental Laboratories, Ltd., Hove, Sussex.
- For pharmaceutical preparations (5)
- DRENISON, 820,547, by Eli Lilly & Co., Indianapolis, Indiana, U.S.A.

- For all goods but not including infants' and invalids' foods or dietetic foods (5)
- CREMAC, 820,655, by Ward, Blenkinsop & Co., Ltd., Wembley, Middlesex.
- For pharmaceutical substances (5)
- RYTMALINE, 821,542, by Gebruder Guitini, G.m.b.H., Ludwigshafen-on-Rhine, Germany.
- For pharmaceutical preparations and substances (5)
- VARIOTIN, 821,965, by Leo Laboratories (England), Ltd., London, W.8.
- For pharmaceutical preparations and substances for human and veterinary use; sanitary substances and disinfectants (5)
- ISOCAR, 823,733, by Imperial Chemical Industries, Ltd., London, S.W.1.
- For electric shavers and parts (8)
- COURIER, 822,326, by Kent Cordless, Ltd., Birmingham, 3.
- For photographic apparatus, and parts and fittings (9)
- LUMOPRINT, 807,906, by Lumoprint Zindler K.G., Hamburg, 13, Germany.
- For machines, apparatus and appliances, all for the vibratory massage of the body; and parts and fittings (10)
- RELAX-A-TRON SLIMMING PARLOURS, 812,623, by Slimming Parlour, Birmingham, 5.
- For toe stalls, foot stalls, foot cushions, bunion cushions, insoles and tubes of foamed plastics, all being non-medicated goods and all for surgical or curative purposes (10)
- PLASOTEX, 815,624, by Devon Industries (Plastics Division), Ltd., Brixham, Devon.
- For gloves (10) and for gloves for domestic purposes, other than bottling gloves of india-rubber (21)
- BALTEX, 821,719, 818,191, by Guard Rubber Co., Ltd., London, W.C.2.
- From the "Trade Marks Journal," October 4
- For detergents in powder form for domestic use (3)
- FLASH, B789,335, by Thomas Hedley & Co., Ltd., Newcastle-on-Tyne.
- For tan lotions containing vitamin D, being non-medicated toilet preparations for use after shaving (3)
- Device with words MAN-TAN AFTER SHAVE SUNTAN LOTION, 803,499, by Drug Research Corporation, New York, 17, U.S.A.
- For non-medicated toilet preparations for application to tissues for repairing split or broken fingernails (3)
- REVLON NAIL FIX, 798,043, by Revlon, Inc., New York, U.S.A.
- For cleaning preparations and detergents (not for use in industrial or manufacturing processes) (3)
- KLEENODYNE, 810,083, by West Chemical Products, Inc., New York, U.S.A.
- For shampoos (3)
- AEROHED, 823,937, by International Laboratories, Ltd., Chessington, Surrey.
- For pharmaceutical preparations containing adrenaline, in cream form (5)
- LLOYD'S ADRENALINE CREAM, 790,541, by Howard Lloyd & Co., Ltd., London, S.W.1.
- For pharmaceutical and veterinary preparations consisting of or containing penicillin, and being for oral administration (5)
- NUCILLIN, 807,451, by Chas. Pfizer & Co., Inc., Brooklyn, New York, U.S.A.
- For disinfectants, deodorants, germicides, fungicides, sanitising substances and antiseptics (5)
- KLEENODYNE, WESTOMINE, 810,084-05, by West Chemical Products, Inc., Long Island City, New York, U.S.A.
- For all goods (5)
- Device with word MYCOFARM, 812,175, by Koninklijke Nederlandse Gist- & Spiritus-fabrik, N.V., Delft, Holland. Device with letters, McK, B816,147, by McKesson & Robbins, Inc., New York, 17, U.S.A.
- VASTAREL, 821,701, by Biofarma S.A., Neuilly-on-Seine, France.
- VI-DOM-A, 822,124, by Dome Chemical, Inc., Elkhart, Indiana, U.S.A.
- CARBOTON, 822,777, by Boots Pure Drug Co., Ltd., Nottingham.
- For all goods consisting of or containing theophylline derivatives or compounds (5)
- AMPLIPHYLLINE, 813,891, by Les Laboratoires Dausse, Paris, France.
- For pharmaceutical preparations and substances for the treatment of headaches (5)
- HEDEX, B817,848, by Winthrop Group, Ltd., Surbiton, Surrey.
- For pharmaceutical preparations for inhibiting travel sickness, for human use (5)
- ZENTOL, 818,859, by Self Serve Automatic Machine Co., Ltd., Weybridge, Surrey.
- For insecticides, fungicides and weedkilling preparations (5)
- PERECOL, 818,883, by Plant Protection, Ltd., London, S.W.1, and Yalding, Kent.
- For pharmaceutical preparations in tablet form and suppositories, all for use in the treatment of haemorrhoids (5)
- HÄMAZOIDS, B819,663, by British Chemotherapeutic Products, Ltd., Bradford, Yorks.
- For fungicides and insecticides, all for use in the treatment of timber (5)
- Device, 820,562, by V.E.S. (Preservation), Ltd., Aberdeen.
- For pharmaceutical products (5)
- BLEND-A-MED, 820,800, by Blendaxwerke R. Schneider & Co., Mainz/Rhine, Germany.
- For pharmaceutical, veterinary and sanitary substances; infants' and invalids' foods; medical and surgical plasters; material prepared for bandaging; disinfectants (5)
- KUSTRIN, B821,899, by Society Farmaceutici Italia, Milan, Italy.
- For chemico-pharmaceutical preparations for use in gynaecology (5)
- RALVONA, 822,166, by Schering A. G., Berlin (West) N.65, Germany.
- For pharmaceutical preparations for analgesic purposes in the form of tablets and cream, all containing nicotinamide (5)
- CHILVAMIDE, 819,818, by Chilva Laboratories, Ltd., Bradford, Yorks.

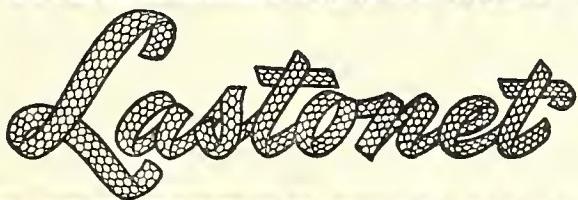
CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals

- PUBLIC INTEREST in the function and practice of pharmacy. Amer. J. hosp. Pharm., August.
- STEROIDS. Treatment of systemic lupus erythematosus with. Brit. med. J., October 7.
- RADIOTRIOLEIN TEST, assessment of, in steatorrhoea. Brit. med. J., October 7.
- BIOCHEMICAL RESEARCH, contributions of, in medicine. J. Amer. med. Ass., September 23.
- COLISTIN. J. Amer. med. Ass., September 23.
- SODIUM DIMETHOXYPHENYL PENICILLIN. Stability of. J. Amer. pharm. Ass., September.
- POISON BOTTLES and safety closures. J. Amer. pharm. Ass., September.
- INACTIVATION OF ENZYME PROTEINS by ultraviolet light. Mechanism of. Science, September 22.
- AMINO ACID COMPOSITION of some calcified proteins. Science, September 22.
- THE ARCHITECTURE OF VIRUSES. Discovery, October.
- AUTOMATION of medical analysis. Discovery, October.
- NOVOBIOCIN in the treatment of staphylococcal mastitis in cows. Vet. Rec., October 7.
- IMPROVED BENZIDINE SUGAR REAGENT for paper chromatograms. Nature, October 7.
- INTRAVENTRICULAR BRETYLIUM. Antagonism of reserpine by. Nature, October 7.
- INFLUENCE of adding salts to the medium on counts of phenol-treated *Escherichia coli* on membrane filters. Nature, October 7.
- ENZYMIC INACTIVATION of trichothecin and crotonic. Nature, October 7.
- IODINE in medicine and pharmacy since its discovery (1811-1961). Proc. Roy. Soc. Med., October.
- CHEMOTHERAPY of bronchitis. Brit. med. J., October 14.
- PHENETHICILLIN. A trial, in chronic bronchitis. Brit. med. J., October 14.
- PLASMA PSEUDO-HOLINESTERASE. Simple test-paper method for the clinical determination of. Brit. med. J., October 14.
- DEXTRAN. Stability of, during prolonged storage. Nature, October 14.
- BENZOTHIADIAZINE. A non-diuretic benzothiadiazine with anti-hypertensive properties. Nature, October 14.
- ANTIBACTERIAL synthetic polypeptide derivatives. Nature, October 14.
- VETERINARY TOXICOLOGY. Some aspects of. Vet. Rec., October 14.

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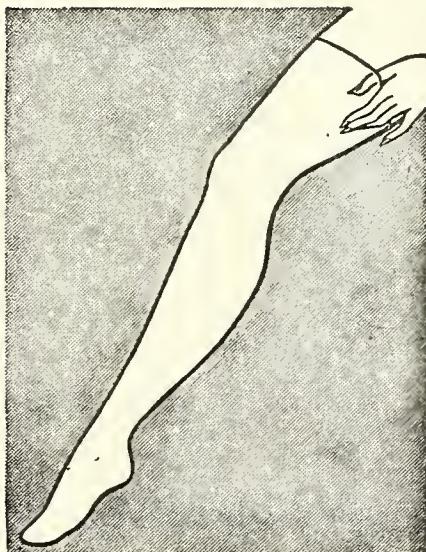
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colds and influenza	chronic smoker's
tracheitis	cough
nasopharyngitis	"nervous cough"

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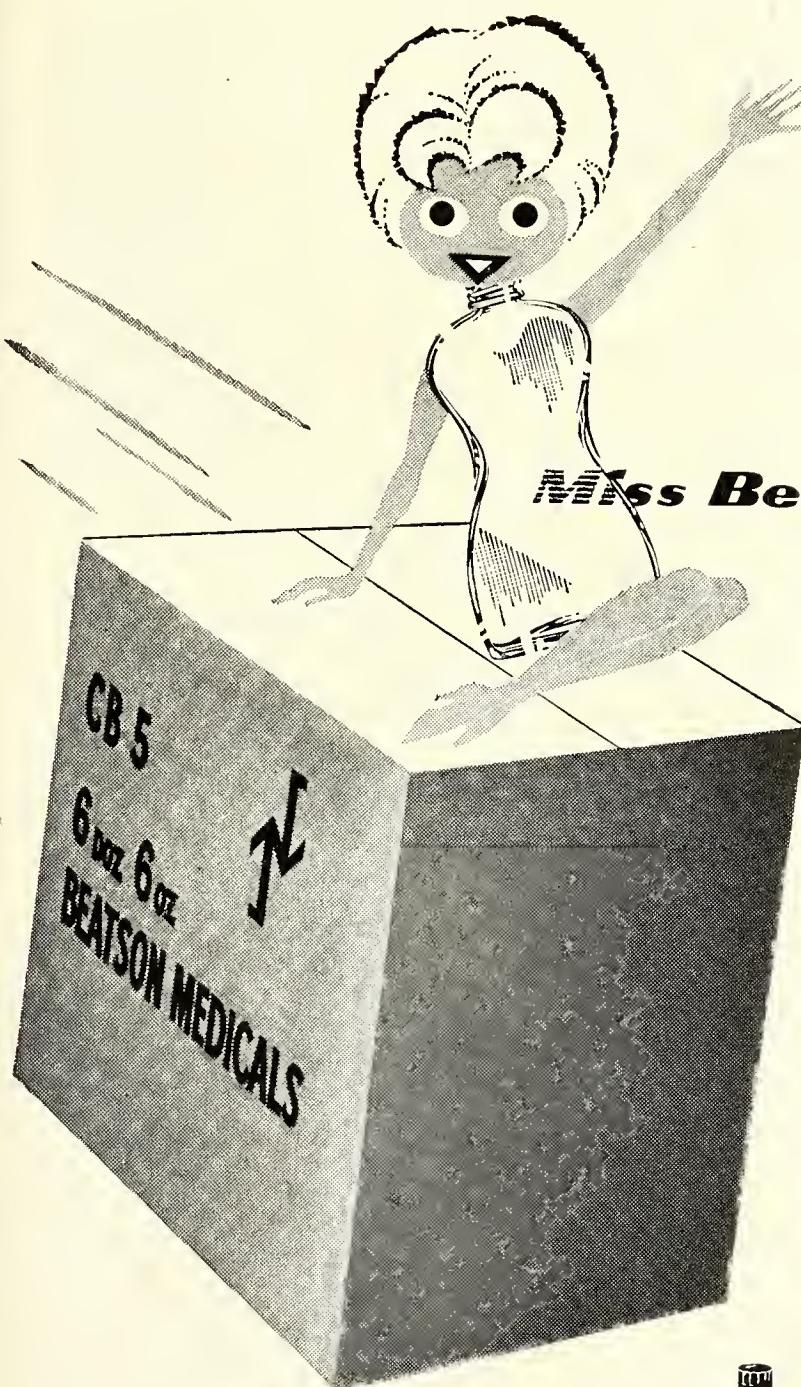
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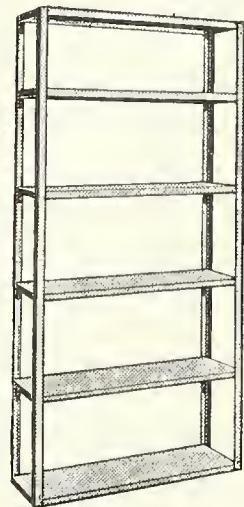


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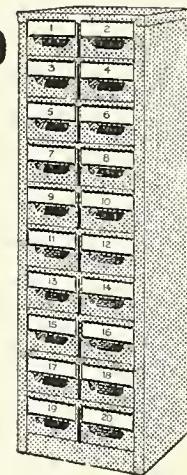
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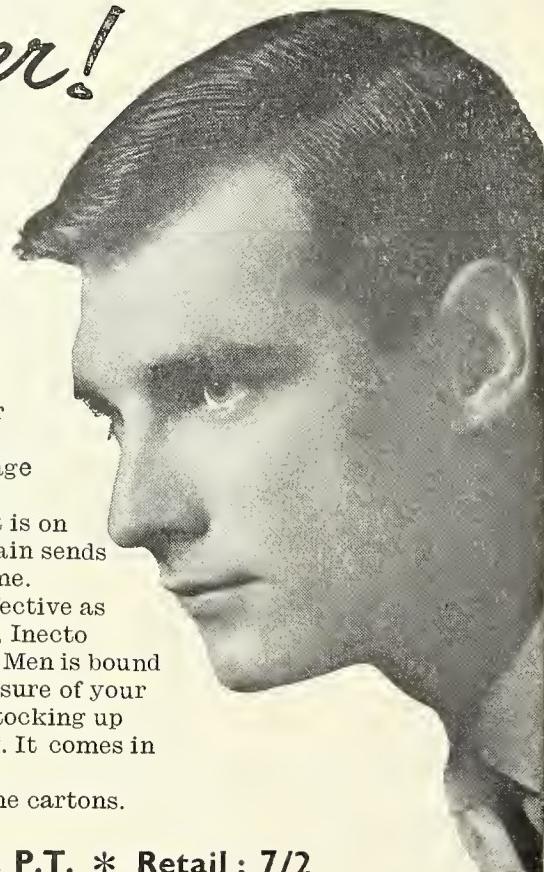
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Bell, John, Hills & Lucas, Ltd.	Price List Sup. Page 6	Lloyd-Hamol, Ltd.	2
Boutalls Chemists, Ltd.	38	Lord, Cyril, Ltd. (Mimosept)	31
British Dyewood Co., Ltd.	36	Macdonald & Son, Ltd.	7
British Felsol Co., Ltd.	Front Cover	Medopharma, Ltd.	40
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Burroughs Wellcome & Co.	Price List Sup. Page 1	Orridge & Co.	Classified Section
Comfy Curlers	17	Pfizer, Ltd. (Agricare)	Interleaved Edit., 28
Cox, Arthur H., & Co., Ltd.	8	Pfizer, Ltd.	Interleaved Edit., 25
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Cuxson, Gerrard & Co., Ltd.	34	Philips Health Lamps	19
Davenport, J. T., Ltd.	42	Pifco, Ltd.	29
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Domestos, Ltd.	18	Rapidol, Ltd.	4
Easipower Appliances, Ltd.	14, 15	Reckitt & Sons, Ltd.	6
Elga Products, Ltd.	Price List Sup. Page 2	Remington Electric Shavers, Ltd.	41
Eucryl, Ltd.	Price List Sup. Page 5	Remploy, Ltd.	43
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Halcwood Chemicals, Ltd.	Cover iv	Souplex, Ltd.	30
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Kellys, John (London), Ltd.	32	Whitmarley Displays, Ltd.	38

'SKYLON' polythene Feeding Bottles



LOOK...
 the ORIGINAL
 Polythene Feeder

**Obtainable
from your
usual wholesaler**

Now supplied in this attractive two colour
 printed pack. Transparent windows keep
 the contents clean yet visible.

• • •

Sterilizing instructions included with each bottle.

Manufactured by:
FIBRELYLE LIMITED
 SKYLON HOUSE, PARK ROYAL ROAD,
 LONDON, N.W.10. ELGAR 6006



RETAIL PRICE 1'8 each

WORLD-FAMOUS MODEL, BARBARA GOALEN,



SPONSORS

NULON (REGD.) ON TV

Frequently repeated 30-second spots on all stations



In a striking new winter and spring TV campaign, Barbara Goalen recommends Nulon for keeping busy hands beautiful, to housewives all over the country.

She will be featured in frequent 30-second commercials on every TV channel—from October 1961 to March 1962—and housewives all over the country will have an opportunity to see them!

STOCK UP WITH NULON NOW!

Attractive Christmas packs are now available.

TRADE PRICES

Tubes, 11s. 1d. per doz.

Small bottles, 11s. 1d. per doz.

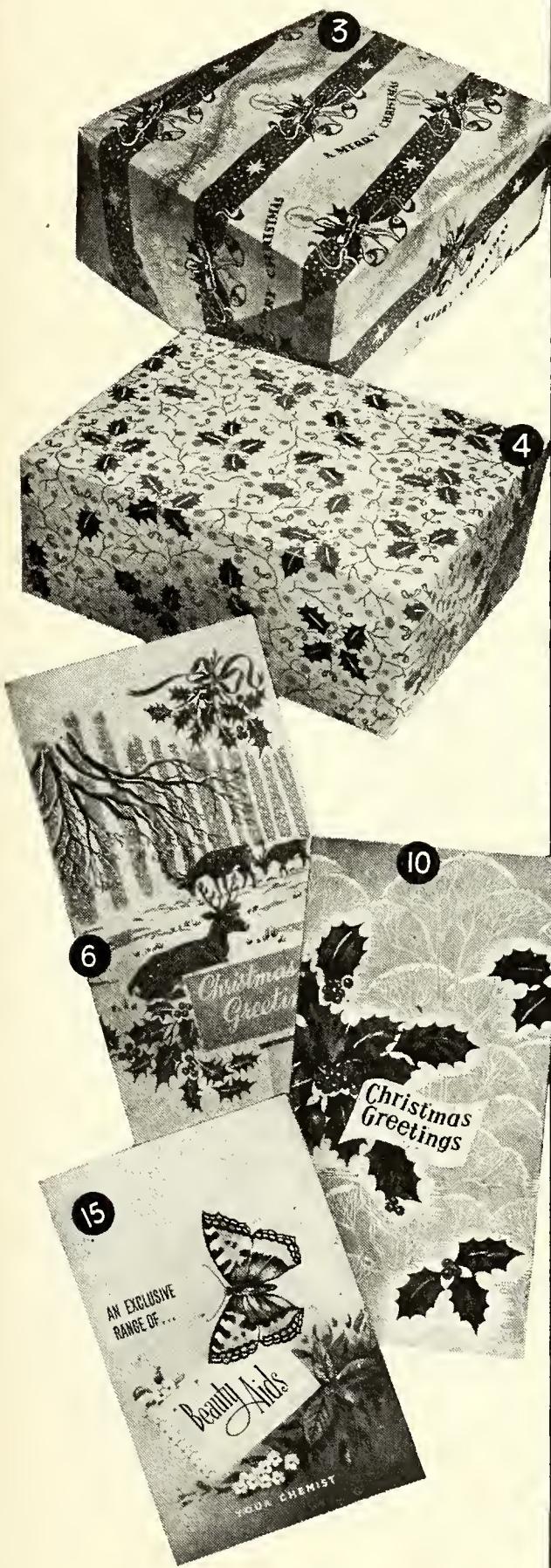
Large bottles, 16s. 0d. per doz.

RETAIL PRICES

Tubes, 1s. 9d.

Small bottles, 1s. 9d.

Large bottles, 2s. 7d.



Buy your
**CHRISTMAS
WRAPPINGS
NOW!**

10% DISCOUNT OFFER

Gay, seasonal papers of the finest quality, specially designed for the pharmacy. Each printed in four colours.

SHEETS	half ream
No. 1 COACH & HORSE DESIGN Sheets, 20" x 30"	31/9
No. 2 STAG DESIGN Sheets, 20" x 30"	30/6
No. 3 SNOWFLAKE DESIGN Sheets (Illus.) 20" x 28"	28/0
No. 4 HOLLY DESIGN Sheets (Illus.) 20" x 28"	25/3 115/6

LESS 10% DISCOUNT 104/0

COUNTER ROLLS. The Holly Design is also available in counter rolls, 14" wide, 700 yds., and 20 lbs. weight approx. Per roll 59/6

DISCOUNTS ON CHRISTMAS COUNTER SATCHELS. THREE ATTRACTIVE DESIGNS

No. 6 DEER DESIGN Four colours (Illustrated) 5" x 7" x 9½". Other sizes : No. 6B 4" x 5½" x 7½". No. 6A 6" x 8½" x 12".

No. 10 HOLLY DESIGN Photogravure ; three colours. (Illustrated) 5" x 7" x 9½". Other sizes : No. 10B 4" x 5½" x 7½"; No. 10A 6" x 8½" x 12".

No. 8 COACH & HORSE DESIGN. Three colours. 5" x 7" x 9½"

NO. 1 OFFER	Assortment of 4500 of all the above sizes and designs	Special Composite price
		110/0

NO. 2 OFFER	Assortment of No. 6 series (1750 Satchels)	41/0
--------------------	--	------

NO. 3 OFFER	Assortment of No. 10 series (1750 Satchels)	49/0
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DISTINCTIVE BEAUTY-AID BAGS

No. 15 Beauty-Aid Bag. (Illustrated). Delicate Butterfly design. Four-colour photogravure.

4" x 6½"	per 1000
5" x 7½"	28/6
	33/9

* The Certor range of counter satchels offers to the chemist a wide selection of both general—and special-purpose bags. These are quality satchels of exclusive designs, well printed and finished, on high-grade paper. Expert designers have collaborated in the designs.



a COX product



ZIM THROAT SPRAY

Non-irritant,
bactericidal and
bacteriostatic—
specially formulated for common
infections of the
mouth and throat.

Available in attractively cartoned
spray bottles at the following
prices:

1 dozen	25/6	} Exempt P.T.
3 dozen @	24/9 per doz.	
12 dozen @	24/- per doz.	

Retails at 3/6 each send for sample

**ARTHUR H. COX & CO. LTD.,
BRIGHTON, ENGLAND**

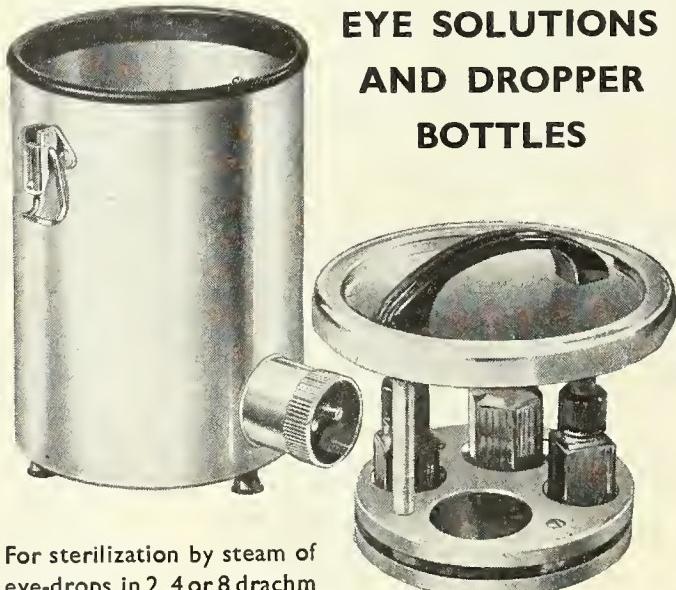
Do not
disappoint
your customers
—stock and display

askit

Powders and tablets for the safe and
speedy relief of headaches, colds, chills,
rheumatic and nerve pains.

EX ALL LEADING WHOLESALE HOUSES

**STERILIZER for
EYE SOLUTIONS
AND DROPPER
BOTTLES**



For sterilization by steam of
eye-drops in 2, 4 or 8 drachm
bottles with rubber teats or
of the bottles alone.

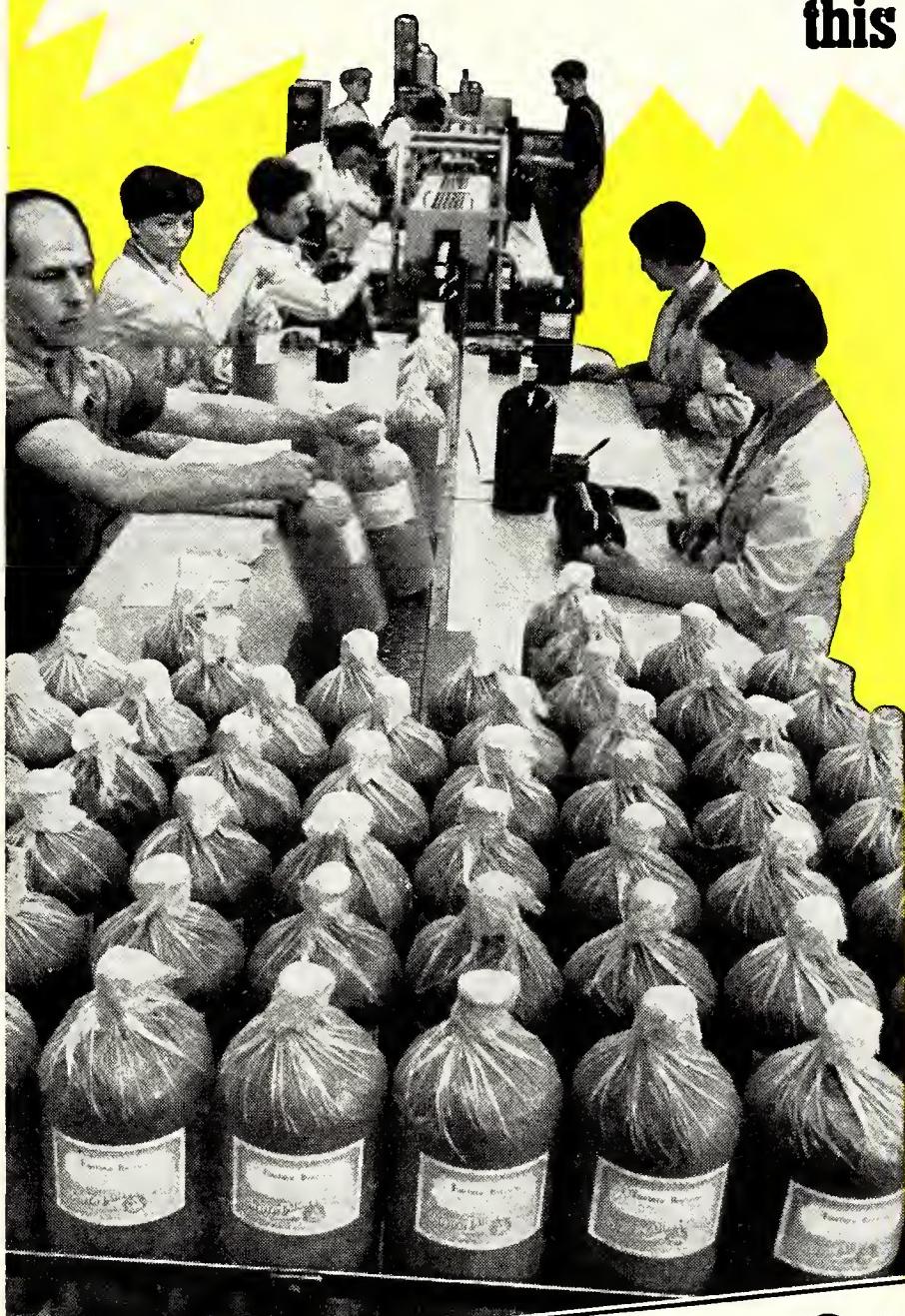
Write for Leaflet 161 to:—

JACOB, WHITE & CO. LTD.
324 UPPER STREET, LONDON, N.I.

Telephone: CANonbury 3233

your

GALENICAL supplies this winter



This winter you will be using regular supplies of galenicals, for your own specialities or for wholesale distribution to the dispensing chemists. In either case you will find Stafford Allen's Galenicals to be, as always, of the highest and most reliable quality, and available for prompt delivery. Up-to-date equipment and stringent analytical control ensures this traditional "Standard of Reliability".

**liquid extracts
tinctures
emulsions
infusions
liquors
syrups
decoctions
elixirs, etc. etc.**

Wholesale only



Stafford Allen's

STAFFORD ALLEN & SONS LIMITED, WHARF ROAD, LONDON, N.I

Telephone: Clerkenwell 1000

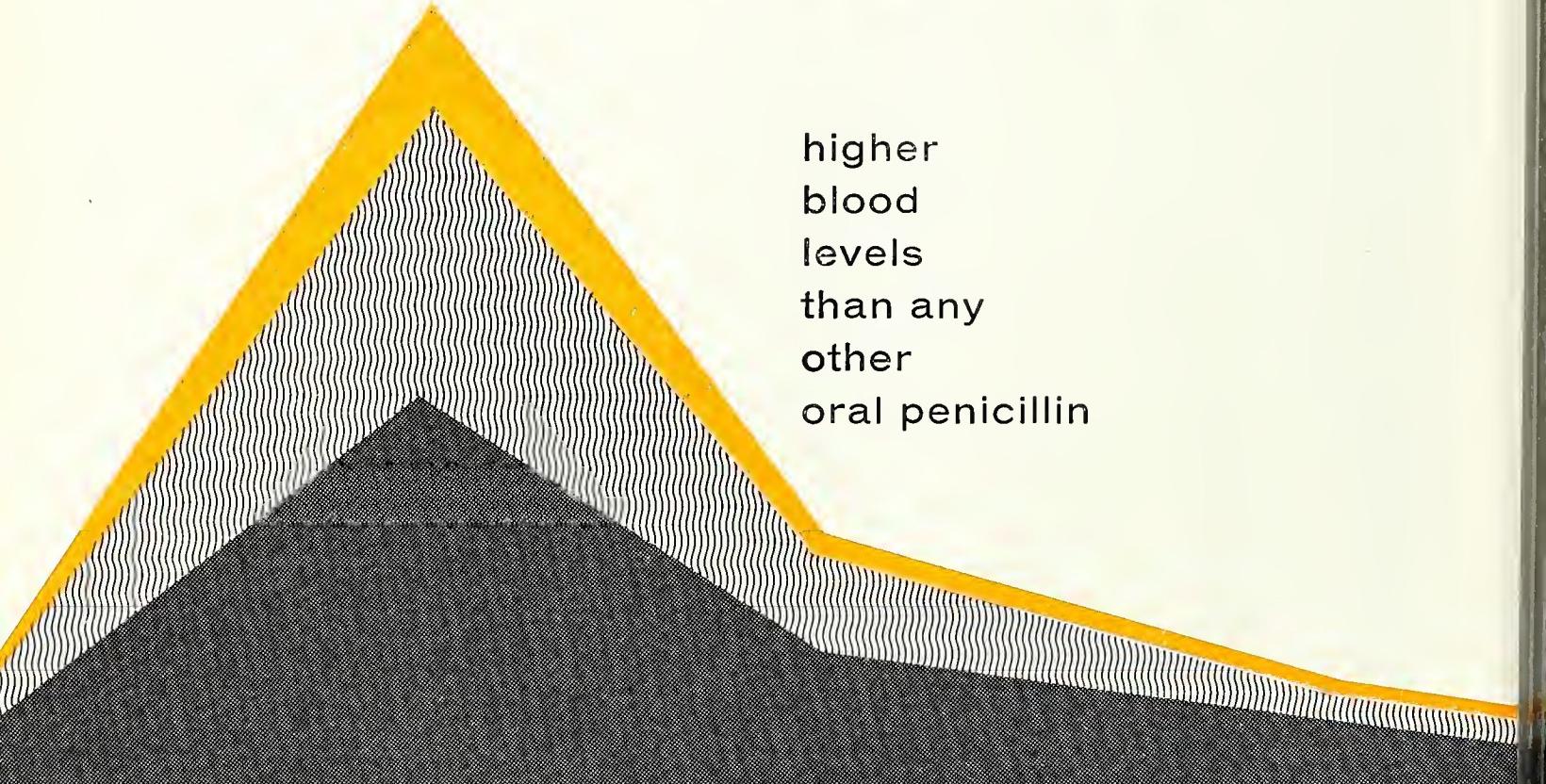
Telegrams: Stafalens, Nordo, London

TAS/AL.653

PENICILLIN SENSITIVE INFECTIONS RESPOND DRAMATICALLY TO

Ultrapen[†]

BRAND OF α -PHENOXYPROPYL PENICILLIN POTASSIUM



higher
blood
levels
than any
other
oral penicillin

all the advantages of other oral penicillins—plus

higher peak blood levels and greater serum anti-bacterial activity

greater activity against streptococci

**greater range of activity against staphylococci
with less likelihood of the development of resistance**

As the greater effectiveness and wider application of this newest penicillin become better known, demands on you to dispense Ultrapen are likely to become heavier.
Stocks are available now through the usual channels.

Ultrapen is available as
125 mg. and 250 mg. scored tablets in bottles of 20 and 100.

marketed in the United Kingdom by
HARVEY PHARMACEUTICALS
a department of Pfizer Ltd • Sandwich • Kent

†Trade Mark

HM110/III84



Pel

A new kind of hand care from I.C.I.

FEEDS AND PROTECTS THE SKIN

Pel is more than a hand cream. It feeds and softens the skin, keeps hands white and smooth.

But more than this—Pel protects hands from all the harmful effects of household chores. It gives "second skin" protection.

Pel has been consumer tested throughout Britain—has every product feature asked for by women—has been successfully test marketed.

Display material is freely available

☆ ☆

FOR YOU—PROFITABLE PERMANENT BONUS TERMS

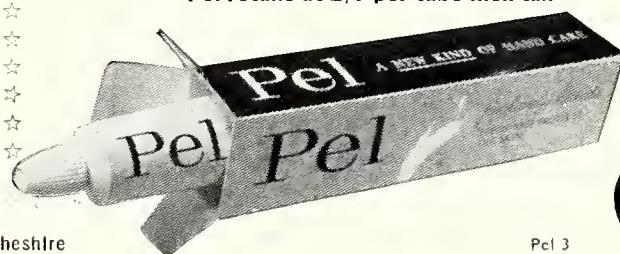
☆ You pay 14/2½ per doz. plus 7/9 tax (including surcharge)

☆ Resale 31/- per dozen Your profit 9/0½ per dozen

☆ The bonus is available from our representatives or your wholesaler.

☆ Always order Pel in dozens.

☆ Pel retails at 2/7 per tube incl. tax



Pel 3

Pel is a registered trade mark of

Imperial Chemical Industries Limited Pharmaceuticals Division Wilmslow Cheshire



BENEFITS WHOLESALE

UNICHEM, as its many supporters know to their advantage, is no ordinary pharmaceutical wholesaler. First of all, the UNICHEM service is available only to independent retail chemists and is dedicated to the furtherance of their common interests. Secondly, it is a non-profit making organization in that all profits accrued through its trading activities are returned, in one way or another, to its supporters. Thirdly, UNICHEM is controlled financially and in policy making by retail pharmacists only. Small wonder that a recent invitation for enquiries brought such an overwhelming response as to limit temporarily further enlistment of 'UNICHEMISTS' in certain areas. Just look at these advantages:

unicem

UNICHEM LTD., BROADWATER ROAD, LONDON, S.W.17
TELEPHONE: BALham 1151

all this free . . .

- * The UNICHEM Ethical Products List is packed with vital information. UNICHEM experts are ready to advise on all shopfitting problems.
- * The UNICHEM Information Bureaux of Pharmaceutical, Technical and Business Administration are exclusively available.
- * 'UNICHEM News and Views'—free monthly—keeps you abreast of events. Covers all aspects of pharmaceutical and business practice.
- * Selling aids and specially designed show material help boost your sales. An agency in profitable 'Valkem' and 'Valmore' proprietaries could also be yours.

. . . and a rebate too!

Not only are the UNICHEM services entirely free of charge, but supporters actually receive an annual rebate out of the profits of the company. Last year alone £27,400 was returned in this way.

A new revolutionary shampoo-type hair colouring for concealing GREY HAIRS

Color-Match

trade mark

as easy to use as successful Color-Glo

Over
13,000,000 women
to see

COLOR-MATCH advertising
now appearing in
WOMAN • WOMAN'S OWN
EVERYWOMAN
WOMAN & BEAUTY
MODERN WOMAN
SUNDAY EXPRESS

*Make sure you have a complete range of
Color-Match shades to meet the
immense demand*

*made in six beautiful shades
of brown*

Dark Brown
Dark Warm Brown
Mid-Brown
Mid-Warm Brown
Light Brown
Light Golden Brown

Retail Price 5/8 per bottle

Trade Price 33/2 per doz.

Purchase Tax 18/3 per doz.



* COLOR-MATCH colours grey hairs to match the rest of the hair — without changing its natural basic colour.

* COLOR-MATCH is absolutely harmless. It needs no skin test. It is a liquid, as simple to use as a shampoo, is semi-permanent, lasts through 6-8 shampoos, and leaves the hair in beautiful condition.

* COLOR-MATCH is certain to create an entirely new hair colouring market, from which you will earn big new profits.



A creation of  **L'OREAL · PARIS**

Your wholesaler has supplies or you can order direct from **GOLDEN LIMITED, London, W.1**

Republic of Ireland enquiries to, **Lilmar Pharmaceuticals Limited, Santry, Dublin.**

THE *Dreamland* DISPATCH

OCTOBER 21, 1961



Dreams
do
come
true...

SEE PAGE 2, COL. 2,

A DREAMLAND every fifteen seconds!

NEW 'SAFETY-SEAL' CONSTRUCTION REVOLUTIONISES ELECTRIC BLANKET MANUFACTURE

Automation has revolutionised Dreamland's production technique. At their specialised factory, manufacturing nothing but electric blankets, remarkable equipment for the world-patented "Safety-Seal" construction has been perfected, which has the capacity to turn out a complete electric blanket with push-button ease.

The water-proof, high temperature element is inseparably welded between layers of foam material and thick fleecy blanket in a single 15-second operation, every blanket alike — perfect.

This new "Safety-Seal" construction settles the question of

electric blanket safety. Millions of air bubbles quickly spread the heat over the whole area and prevent overheating arising from accidental folding of the blanket. The new Dreamland 3-Heat "Safety-Seal" Model is made in two-colour presentation; coral pink one side and sky blue the other with smart silver-grey satin binding all round. A new 5-position illuminated switch is fitted.

Despite the enormous potential output of Dreamland's new automated machinery, demand is already exceeding supply and the manufacturers state that early ordering is essential.

Dreamland
ADDS HALF-PAGE
DAILY EXPRESS
TO PROMOTE
"SAFETY-SEAL"

As part of an extra advertising allocation to celebrate Dreamland's success in winning the A.S.E.E. Award for the most outstanding development in domestic appliances, a half-page advertisement in the Daily Express on December 13th is being added to their already heavy advertising expenditure. Dreamland, as specialists in marketing as well as manufacture, do not consider their sales task completed until Dreamland blankets enter the home.

Lucky Retailers win FREE Advertisement

This year, there's not only a new slant to the popular 'Sweet Dreams' Competition, but something new for 10 lucky retailers *every month*. When one of your customers wins, you get an 11" x 3 column advertisement, with your name and address prominently featured, FREE in your local press. Just think how many extra customers this will draw to your shop!

**Have you
received all
your
display material
?**

Check each item from the following list, and if you haven't received *your* display material, either contact your wholesaler immediately or write direct to Easipower.

Large full-colour show card—30" x 20"—use this as the centre piece of your Dreamland display.



Small full-colour show card.



Display price card



Window bill



Attractive colour leaflet to give to your customers



And don't forget that the new Dreamland 3-heat Luxury model with "Safety Seal" construction is packaged in a specially designed container which opens up to form an attractive display piece.



A.S.E.E. AWARD CAN HELP THE SALE

A customer will always respond to an argument with proof. The winning of the A.S.E.E. Award by Dreamland is proof of the outstanding technical superiority of this blanket. Make sure your customers recognise the importance of this award—it can help you to sell all Dreamland Electric Blankets.

TELL YOUR CUSTOMERS ABOUT THE 'SWEET DREAMS' COMPETITION

Anyone who purchases a Dreamland Blanket can enter the new 'Sweet Dreams' competition. But don't wait for your customers to buy, tell them about it beforehand. The competition is easy and it's fun—simply selecting the 'Sweetest dreams' of a family of six and completing the last line of a Limerick. Every month from October to February, ten entrants will win two Dreamland 3-Heat Electric Blankets—one single-bed size, one double-bed size. Entry forms are included with every blanket, but any extra forms you may need for stock already held, can be obtained on request.

A DREAMLAND EXTRA

Remember, every Dreamland stockist gets an extra 5% discount over normal trade terms. With a top-selling product and extra profit it seems a "dream" land indeed—but true.

ADVERTISER'S ANNOUNCEMENT

TOP SCORE FOR DREAMLAND!

Twenty-five 'points' that give Dreamland the 'lead' in the Electric Blanket Field.

- * New 'Safety-Seal' construction.
- * Made by specialists.
- * Fully approved to B.S.I. 2612.
- * 5-position switch for temperature control.
- * £55,000 worth of National Press and T.V. advertising.
- * Every blanket triple tested.
- * 'Sweet Dreams' competition for your customers—with prizes for you.
- * Three year guarantee.
- * Illuminated switch.
- * Tested and approved by Electricity Boards.
- * Soft fleecy blanket material.
- * Covers the whole bed.
- * Single size 60" x 30"
Double size 60" x 48".
- * Can be used as an over or an under blanket.
- * Competitive prices.
- * Beautifully packaged in striking display boxes.
- * Can be secured to the mattress.
- * First-class servicing facilities available.
- * 200/220 or 230/250 voltages.
- * Fully shrunk washable cotton covers available.
- * Colourful leaflets and display material available.
- * Free dealer blocks available.
- * Extra long flex.
- * Press and P.R. support.
- * 2-colour blanket presentation.

DREAMLAND ELECTRIC BLANKETS

Easipower Appliances Ltd,
30 High St, Southampton



when
a 'wait'
becomes
a 'congestion'

You're never alone with a virus! When 'cold spell' viruses mount their massive winter attack, you can expect a throng of people in your shop with prescriptions for KARVOL—today's simplest, most effective treatment for upper respiratory tract congestion. KARVOL is easily expressed into hot water or on to handkerchief, pyjamas or pillow without fear of staining. The handy, one dose KARVOL capsules fit easily into pocket or handbag... provide instant relief anywhere, night or day.

Retail packing—Container of 10 capsules

GENEROUS BONUS TERMS

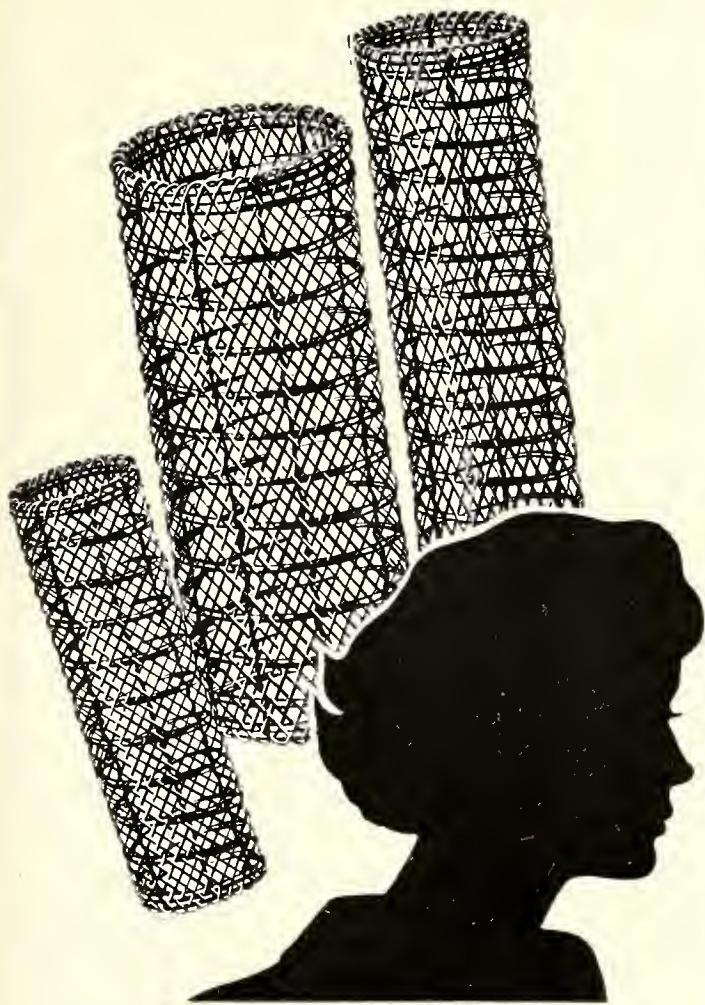
13 to the dozen on 2 dozen (minimum) to 5 dozen
14 to the dozen on 6 dozen or more
on direct orders from retail pharmacists only

KARVOL

INHALANT CAPSULES



THE CROOKES LABORATORIES LIMITED • PARK ROYAL • LONDON NW10



TOP-SELLING

Comfy

HAIR ROLLERS!
Now cost less!

In order to absorb the surcharge on Purchase Tax, prices of Comfy Hair Rollers have now been REDUCED. Already best-sellers in their thousands, Comfy Hair Rollers also get the added boost of colourful new counter display cartons. The quick-turnover sales of Comfy Rollers, especially those with the crystal nylon brush, will soar even higher when women see this compelling display. Don't miss your chance of extra year-round profits—even more now prices are DOWN!

Order **NOW** from your usual wholesaler

COMFY CURLERS

"Nyfine"

**FINE LIGHTWEIGHT
NYLON ELASTIC YARN
N.H.S.**

In foot sizes only
8½" 9" 9½" 10" and 10½"

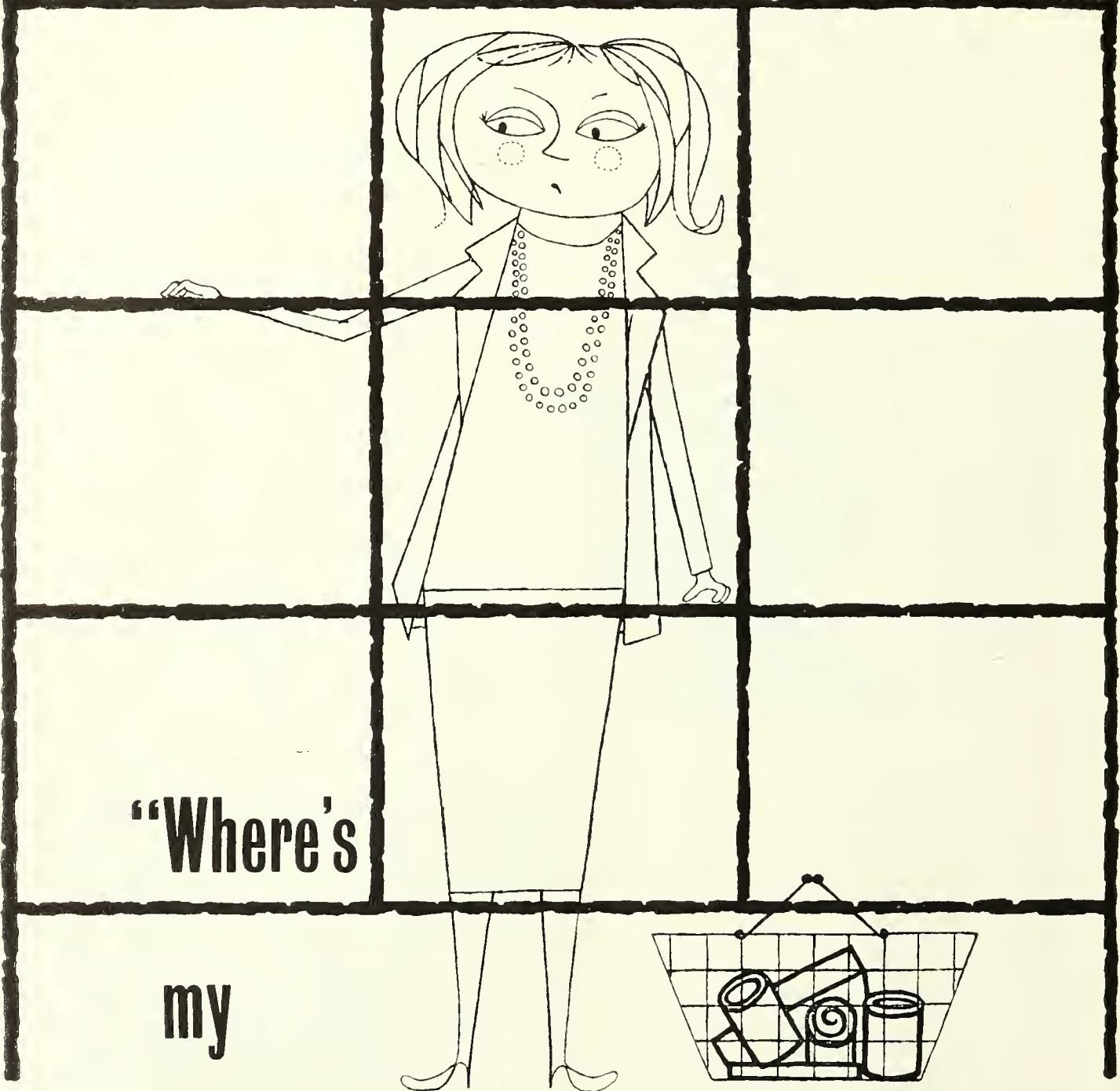
32/- per pair

AN "EESINESS" PRODUCT

E. SALLIS LTD.

VERNON WORKS · BASFORD · NOTTINGHAM
Phone: NOTTM. 77931/2 Grams: "EESINESS"





"Where's
my
Domestos ?

...it's usually here!"

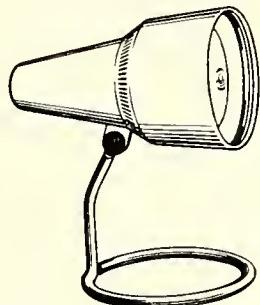
*Don't disappoint
your customers...
keep a good supply
of DOMESTOS
always in stock*



More **DOMESTOS** is sold than any other lavatory cleanser

TAKE
YOUR
 PLACE
 IN THE
SUN
 THIS
 WINTER
 WITH

PHILIPS ULTRAPHIL



1961 produced only a fair-to-middling summer. So Philips 'Ultraphil' is bound to be in big demand throughout the autumn and winter. For doctors know that its beneficial "Alpine sunshine" makes an excellent antidote to all the run-down conditions and illnesses caused by sun-starvation. And in Britain, of course, sun-starvation is the rule rather than the exception.

What's more, the 'Ultraphil' is being strongly advertised in the national press and in the top-circulation radio and TV magazines—just where it will have most effect on family readership. So be sure to stock and display Philips 'Ultraphil'!

Price: £7·15·0

complete with goggles. Philips 'Ultraphil' should be supplied only when the customer is in possession of a signed medical certificate.

You've such a valuable friend in

PHILIPS — the friend of the family



PASSPORT
TO
A NEW
LIFE

TO RESPIRATORY SUFFERERS
THE KIDDE ULTRA LIGHT-
WEIGHT PORTABLE OXYGEN
THERAPY SET MEANS JUST
THAT.

It enables patients to become mobile again, by providing a compact supply of oxygen which can be 'worn.' Thus by the turn of a knob oxygen is always available whenever the need.

Supplied complete with carrying bag, breathing mask and connecting tube in the following sizes.

Type	Oxygen Capacity	Approx. Weight
DH. 120	120 litres	3 lb. 8 ozs.
DH. 170	170 litres	4 lb. 0 ozs.
DH. 230	230 litres	5 lb. 0 ozs.
DH. 530	530 litres	10 lb. 15 ozs.

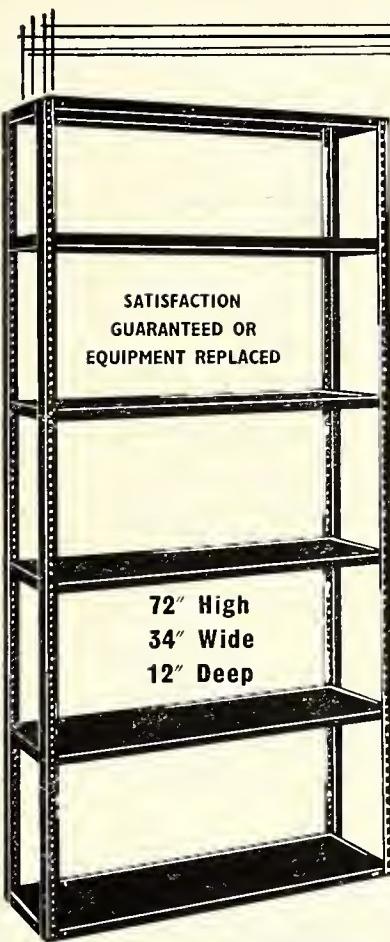
- ★ Simple and safe to operate.
 - ★ Two rates of flow available by selection.
 - ★ Cylinders Home Office approved.
- Prices and literature gladly sent on request.

THE
WALTER KIDDE COMPANY
LIMITED

BELVUE ROAD • NORTHOLT • MIDDLESEX

Telephone VIKING 6611





Heavy Gauge Steel SHELVING

Brand new—Manufactured in our own works.
Shelves adjustable every inch.
Heavy gauge shelves will carry 400 lb. distributed weight each.
Stove enamelled dark green.
6 shelves per bay—Extra shelves 8/- each.
Quantity discounts.

Other sizes available. Also available in white at £5 per bay

£3·15·0

DELIVERED FREE!
IN ENGLAND, SCOTLAND
AND WALES

**THE ONLY HEAVY
GAUGE SHELVING AT THIS PRICE**

N.C.BROWN LTD

Shelving Division, Heywood, Lancs.

Tel: 69018

**IN FOUR
COLOURS
WITH A
ROLL BOY
HAND
PRINTER**

**Price
Complete £3.3.0
CARRIAGE PAID**

Write for full details and descriptive brochure to:

Telephone: 610132

ROLL BOY SALES LIMITED

DEPARTMENT C.D., 70 PILGRIM STREET, NEWCASTLE UPON TYNE, I.

**IDENTIFY
YOUR SHOP**

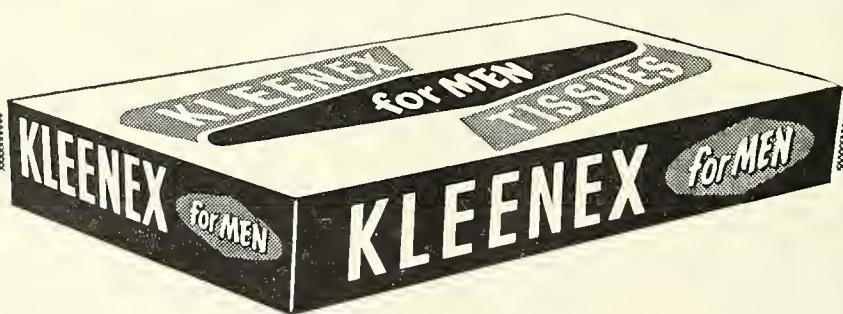


Pharmacists! Identify your wrapping paper, letterheads and stationery with your Shop title in up to four colours. The Roll Boy Hand Printer produces brilliant, non-smudge wording and designs to your own specification. Roll Boy's precision-made rubber stereo lasts indefinitely and will make thousands of good impressions on your behalf.

Do you stock Britain's biggest selling tissue?

KLEENEX-FOR-MEN

1st man-sized tissue
1st tissue with wet-strength
The only 12" x 12" tissue



The huge popularity of Kleenex*-for-Men comes from hundreds of different customer-proved uses.

BIG TV PLAN — heaviest-ever backing this winter for Kleenex tissues. Lots of hard-sell commercials

will send more customers than ever into your shop.

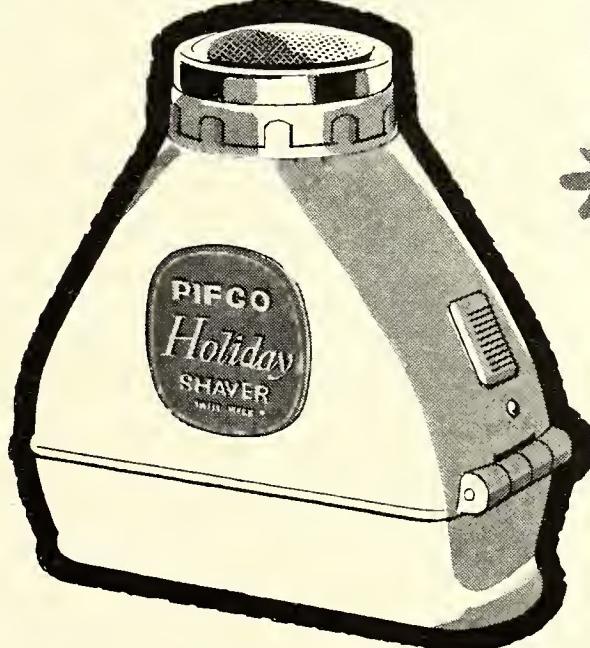
Take full advantage of this strong TV backing with good displays. Striking new display material available.

*Regd. Trademark Kimberly-Clark Corp.

Stock Kleenex-for-Men—Britain's biggest selling tissue



PIFCO's POWERFUL SHAVER TRIO



POPULAR

more popular with your customers than ever!

Today's finest value at only 64/- complete. A high efficiency shaver whose steel cutters operate at 6,000 times per minute; two-pin ivory plug; lamp holder adapter; and an attractive tartan bag. Makes an ideal gift too! 200/250 volts. A.C. only.



PRINCE DE LUXE

a fistful of exclusive selling points.

Only the Pifco 'Prince de Luxe' has 'Varishave' power control, to suit every type of beard; a long hair trimmer; a spare cutter; an extra foil sleeve. In presentation box with 5 foot flex and 5 amp. 2 pin plug fitted dual voltage. For 100/120 and 230/250 volts, A.C. only. Price: £6.7.11d. complete.



HOLIDAY

The Battery Shaver that makes the ideal travelling companion. Powered by 1½ volt U2 torch battery. Micro thin shaving head with spring loaded blades to give a quick, close shave. Ultra fine sieve glides smoothly across the skin. In handsome presentation box. Costs only 53/4 complete!

**ORDER FROM YOUR
WHOLESALE NOW**

SHOW YOUR GOODMAN'S **Kirbigrips** in this compact new display

Clearly displays 12 of the ever-popular Handipaks of Kirbigrips—yet takes up only 4 $\frac{1}{4}$ " x 3 $\frac{1}{4}$ " of your counter.



HP4/12-1-Dozen Display Box

Contains 1 dozen Handipaks of 20 plastic-tipped Kirbigrips (black or brown). Packed 3 boxes to each outer. Price: 38/- per gross Handipaks, plus 27½% P.T. Retail 6d.

Order now from your wholesaler

Made by **GEORGE GOODMAN LTD, BIRMINGHAM 28**



a gift
a woman
gives
herself

Every woman is a possible buyer of this dainty toilet accessory. Reasonably priced at 3/9, to ensure spontaneous purchase. Complete in moulded case with 2 "Nymph" Blades, in PINK, BLUE, GREEN. "Nymph" Blades in cartons of 6 blades, 1/5d.

Obtainable from your usual wholesaler.

A PRECISION MADE



PRODUCT



THE TOILET ACCESSORY THAT
SELLS ON SIGHT

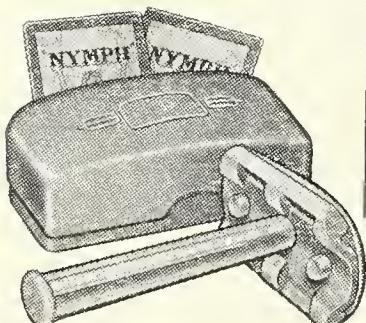
Six "Nymph" Razors packed in attractive colourful Carton for counter or showcase display.

Backed by National Advertising

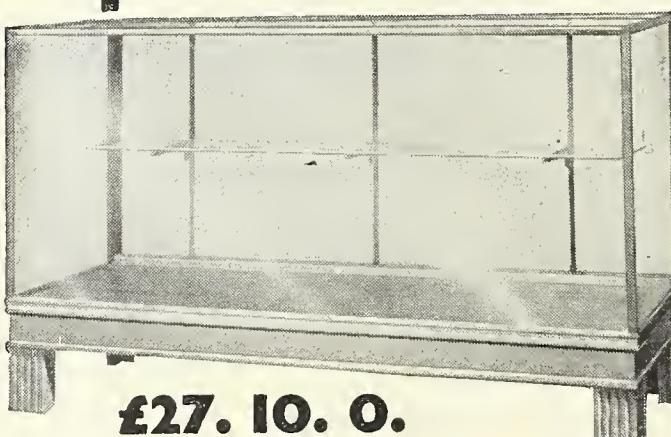
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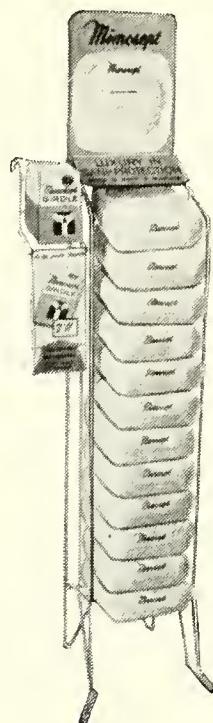
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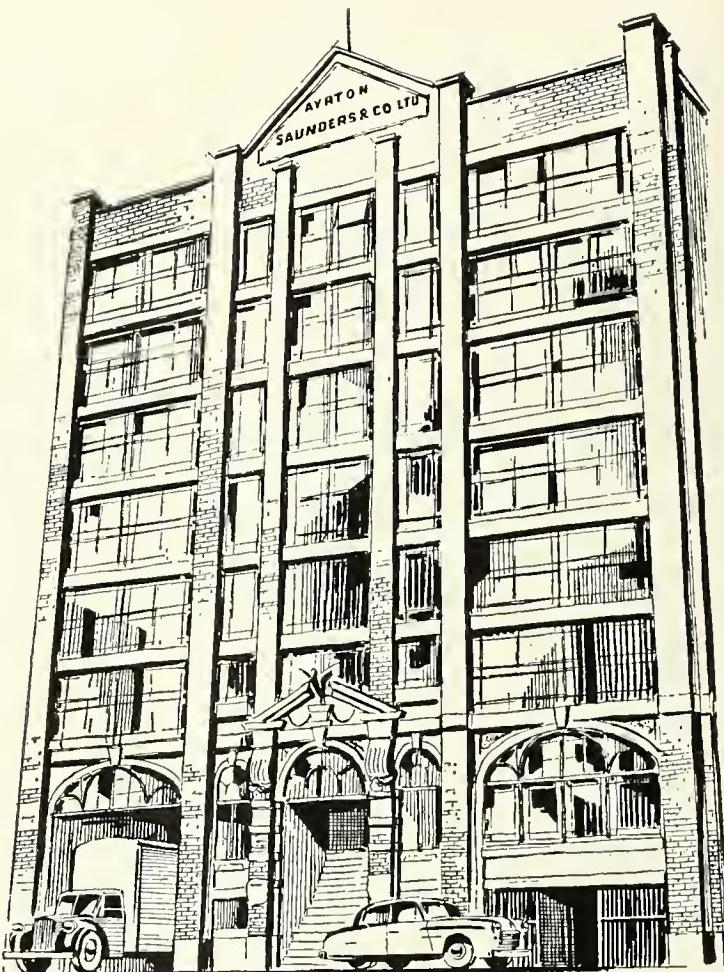
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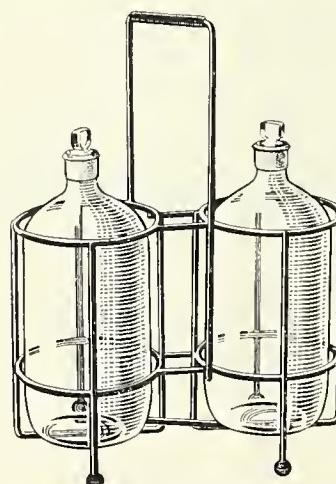
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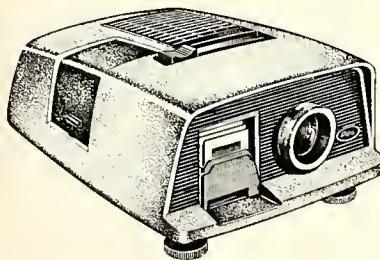
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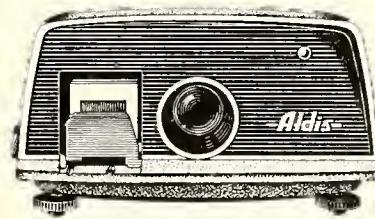
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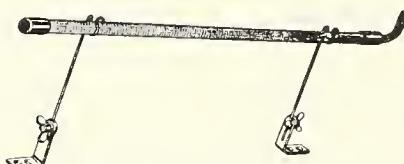
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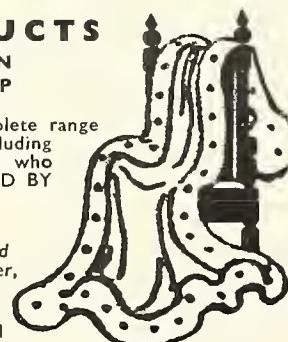
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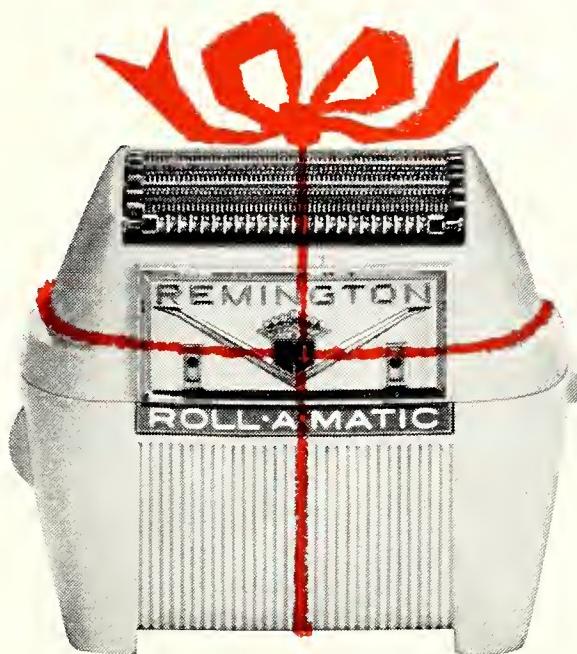
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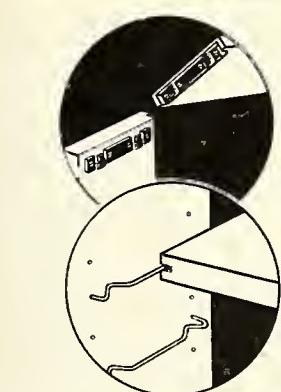
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S.E.22**

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required. Scale £770 to £1,010 plus London Weighting allowance. Apply Chief Pharmacist, C 6949

**NORTH WIRRAL HOSPITAL MANAGEMENT COMMITTEE,
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HOSPITAL,
WALLASEY, CHESHIRE**

Applications are invited for the following appointments:—

SURGICAL UNIT, LISCARD ROAD**Senior Pharmacist
Pharmacist****MEDICAL UNIT, MILL LANE****Pharmacist**

Salary: Senior Pharmacist £770 by increments to £1,010. Pharmacist £690 to £920 with a higher point of entry into the basic grade according to previous professional experience. Applications giving details of age, experience, etc., to The Group Secretary, Mill Lane, Wallasey, Cheshire. C 6922

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(whole-time) required at Whittingham Hospital, nr. Preston, Lancs. Commencing salary between £770 and £950, according to experience, rising by regular increments to £1,010 per annum. Modern pharmacy, good working conditions. Applications immediately to the Secretary. C 6957

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R3,120 x 120—3,480 plus temporary annual vacation savings bonus of R120 for married men and R60 for single men.

Previous teaching or professional experience will determine the commencing notch of the salary scale. The successful candidate will be expected to assume duty in January 1962.

Applicants should be graduates in pharmacy and possess a pharmaceutical qualification registerable with the South African Pharmacy Board. The appointee will be required to undertake the teaching of pharmaceutics to the level of the degree in pharmacy. Special interest in pharmaceutical technology or pharmacology would be an advantage.

Apply: The Director,
Witwatersrand Technical College,
P.O. Box 3293,
JOHANNESBURG.

C 6961

SITUATIONS VACANT**RETAIL (HOME)**

BANSTEAD, SURREY. Vacancy (due to cancellation of appointment) for experienced unqualified dispenser. Modern shop; several on staff. Good wages and yearly bonus. Apply with usual details to Mr. Woolatt, Greenhurst, Woodmansterne Lane, Banstead. Phone Burgh Heath 2024 evenings or Sunday. C 4159

DERBYSHIRE. Pharmacist assistant, aged 25-35, required for good-class pharmacy in small country town. Good salary and prospects for suitable applicant. Accommodation available. Please send details of experience and salary required to Box C 4164.

DISPENSING AND COUNTER ASSISTANTS. Ladies required for London, E.C.1 and N.1. Highest salary given in exchange for experience and loyalty. Apply in writing to Managing Director, Kendale Chemists, 51 Exmouth Market, London, E.C.1. C 4171

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Bucks.

C 4167

MEDICAL REPRESENTATIVE required for Middlesex. Residence, intimate knowledge of County and pharmaceutical or medical background essential. Experience an advantage but training given man to take over established area. Salary and bonus, car provided and expenses, pension scheme, etc. Full details in strict confidence to Sales Manager, Allied Laboratories, Ltd., 140 Park Lane, London, W.1. C 4145

Situations Vacant—Continued**BURROUGHS WELLCOME & CO.****Assistant Training & Education Officer**

There is a vacancy for an Assistant Training and Education Officer at The Wellcome Chemical Works, Dartford, where extensive training schemes have been in operation over a long period. The Training Department is responsible for the organisation and administration of managerial, supervisory and operative training. The Company Staff Education Scheme is also administered by this Department. We are looking for a recently qualified pharmacist who wishes to make a career with the Company as a Training Officer. Previous experience is not necessary as the successful applicant will be trained in all aspects of the work. Applicants must be pharmacists as our operatives are trained on pharmaceutical production.

Applications should be sent to the:

**Personnel Manager,
Wellcome Chemical Works,
Dartford, Kent.**

C 6941

CHIEF CHEMIST of a South-east London firm of manufacturing chemists requires the services of a young pharmacist or post-graduate student as personal assistant. The post offers experience of a wide variety of fields. Box C 6964.

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**Research Director,
T. & H. SMITH, LTD.,
Wheatfield Road, Edinburgh, 11**

C 6929

OLDHAM CO-OPERATIVE CHEMISTS, LTD., invite applications for the position of Pharmacy Branch Manager, either sex. Modern accommodation available if necessary. Superannuation, Salary and other emoluments at least £1,100. Applications giving age, experience, etc., to Oldham Co-operative Chemists, Ltd., King Street, Oldham, Lancs. C 4146

PHARMACEUTICAL organisation, situated in the West End, requires unqualifieds for interesting position. Five-day week. Salary £624 per annum. Telephone: LAN. 7081, ext. 33. C 6958

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Apply in confidence to:



**MANAGING DIRECTOR, WALLACE LABORATORIES (Division of
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C 6959



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Lederle Laboratories, one of Britain's leading Pharmaceutical firms, requires keen, determined and sincere men as medical representatives for appointment to vacancies in:

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- (c) Cheshire
- (d) Nottingham
- (e) Perth/Stirling

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A pharmaceutical/medical background is desirable, but not absolutely essential, because the most thorough training is given.

A Company car, expenses, incentive opportunities and excellent Pension/Life Assurance scheme are provided. A good salary is paid, commensurate with experience. Prospects for advancement are good; the policy is promotion from within.

If you are between 25-35 years of age, are interested, and meet the above requirements, please send brief details, as a request for an application form (your letter will be acknowledged) to:

**Personnel Manager,
CYANAMID OF GREAT BRITAIN LIMITED
Bush House, Aldwych, London, W.C.2**

C 6948

Situations Vacant—Continued

REPRESENTATIVE. Roberts Windsor, Ltd., require a top-grade experienced sales representative to cover Central London and the West End, also some outlying districts. Company car, non-contributory pension scheme. Apply in writing, stating age and details of experience, to Staff Manager, 14 West Smithfield, E.C.1. C 6952

RIKER
MEDICAL REPRESENTATIVE
IRELAND

Riker Laboratories have a vacancy for a medical representative in the northern counties of the Irish Republic, based on Dublin.

This is an opportunity for a suitably qualified man to join a vigorous and rapidly growing organisation. Conditions of service are among the best in the industry and include a generous expense allowance, use of a Company car and pension and life assurance schemes.

A man of the right calibre can be assured of an interesting and rewarding career. There are ample opportunities for promotion to Head Office appointments in Loughborough or to senior representative appointments overseas.

Applications are invited from pharmacists aged 23 and over. Experience of medical representation would be an advantage but is not essential as we provide a comprehensive training programme.

Please apply in writing to the:

Personnel Director,
Riker Laboratories,
Loughborough, Leicestershire.
C 6966

SENIOR REPRESENTATIVE
London Area

Old-established Company manufacturing medicinal products requires a Chemist's Representative in North and West London and Middlesex. An established territory has this week become vacant due to circumstances outside the Company's control.

The person required must be aged under 45, have successful selling experience to Chemists (preferably of non-advertised products) and be capable of working with a minimum of supervision under the Managing Director to develop a considerable potential on this territory. Good remuneration level, pension scheme and car provided. Excellent prospects with medium-sized family business. Write in strict confidence to Box C 6951.

TABLET COATER. Good prospects with progressive company, for keen experienced man interested in pharmaceutical tablet coating. Good wages, Canteen, No Saturdays. Apply Mr. M. Morris, Pharmaceutical Supplies, Ltd., Green Lane, Hounslow. Hounslow 5122. C 4142

TABLET MAKER REQUIRED by Wright Layman & Umney, Ltd., for manufacture and processing of tablet granulations. 42-hour 5-day week; canteen facilities, overtime by arrangement. Apply: Works Manager, 66-76 Park Street, Southwark, S.E.1. C 6933

TABLET MAKER REQUIRED, experienced in the production of official and non-official tablet formulations. Excellent prospects in a growing concern. Apply: Works Manager, B.C.P., Ltd., 10 Grant Street, Bradford, 3, Yorks. C 6950



“PAKISTAN”

BURROUGHS WELLCOME & CO. are seeking a Production Pharmacist to work in the factory of their Pakistan Company, Burroughs Wellcome & Co. (Pakistan), Ltd., which is situated in Karachi.

Applicants should be Pakistani Nationals holding a pharmaceutical qualification of either Great Britain or the U.S.A. The successful applicant will be expected to spend some time training in this country at The Wellcome Chemical Works, Dartford, Kent.

The job offers interesting prospects as the Company is vigorous and expanding. Salary will be in accordance with experience. Good conditions of employment.

Applications should be made, in writing to the Personnel Manager, The Wellcome Foundation Ltd., The Wellcome Building, Euston Road, London, N.W.1. C 6946

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with a

RETAIL BACKGROUND

30-40 age group (preferably) is offered an interesting and progressive post arising from our policy of expansion. The qualities we are seeking include:

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The successful applicant will be based at our headquarters, but should hold a clean driving licence.

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C 6956

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2. London
3. Leicestershire
4. Hants/Isle of Wight

Applications from other parts of the U.K. will be considered where there are possibilities of arranging a suitable territory.

Good salary, exceptional pension scheme, full expenses; successful applicants are assisted to own their own cars. First class candidates desiring success and security should apply with full details to the Secretary, Roche Products Limited, 15 Manchester Square, London, W.1. Applications will be treated as confidential. C 4165

Situations Vacant—Continued

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Leo Laboratories (England) Limited need more MEDICAL REPRESENTATIVES. These vacancies are caused by the company policy of promotion within the organisation of members of the present sales force. To take their place, we need people with the following qualities (note the order, it's significant):

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Even the bottom rung holds a good salary, expenses and a company car. How far you climb depends on you. Write to the man at the top and tell him why you think the job is yours.

The Managing Director,
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Limited, 15-18 Clipstone Street,
London, W.1.

C 6963

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WAREHOUSE FOREMAN required by wholesale chemists. Reliable person to supervise staff, stock and general routine of warehouse. All-round knowledge of the trade essential. Salary commensurate with experience. Apply in writing, stating age, experience and salary required to: The Secretary, P.D.S. (Leeds), Ltd., 1 Howarth Place, Leeds, 7. C 4174

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C 438

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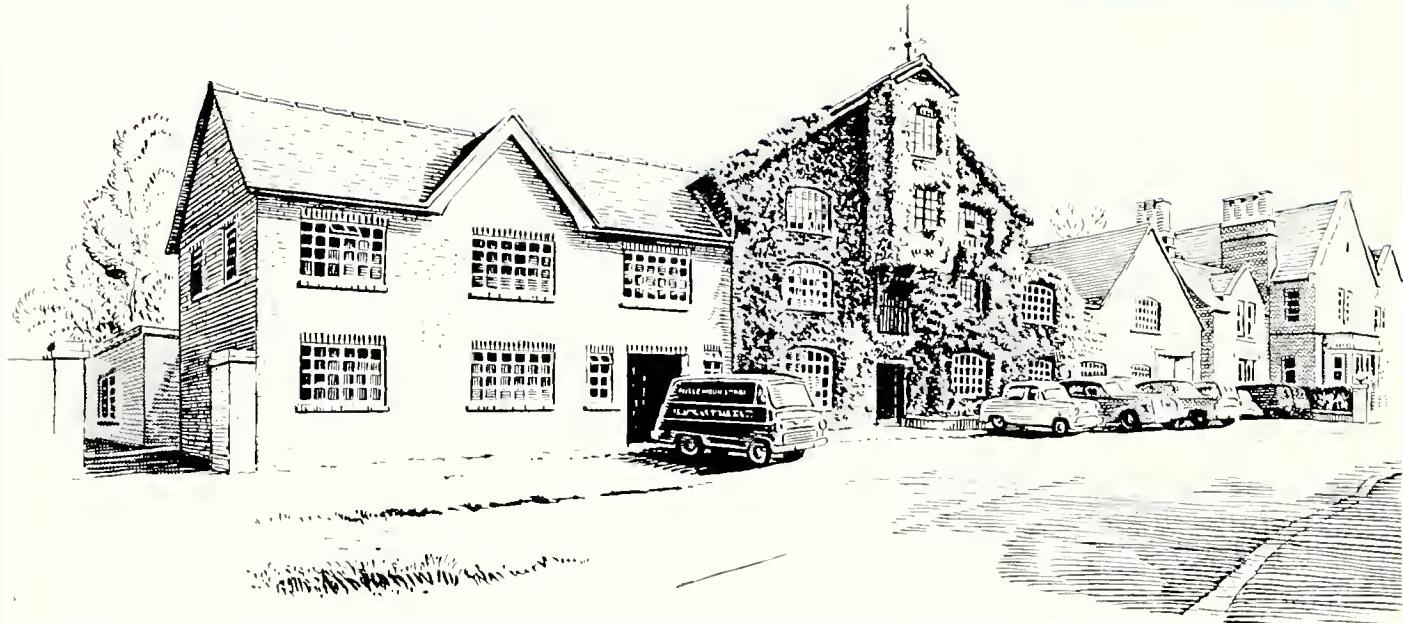
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